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CANNON AIR FORCE BASE NEW MEXICO

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15 JUN 1998

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ENTERED

Dear Mr. Garcia

Enclosed are the final page changes requested for Volume I of the RCRA Facility Investigation (RFI) Report for Landfill 5, Solid Waste Management Unit (SWMU) 113. The requested changes also include covers and spines for Volume II of the RFI report which was approved with these contingencies.

If you have any questions, please contact Mr. Sanford Hutsell at (505) 784-6378, of my Environmental Flight.

Sincerely

James A. Thomas

JAMES A. THOMAS III, Colonel, USAF

Enclosures:
1. Volume I
2. Covers & Spines for Volume II

cc:
NMED (C. Will)
NMED GW Bureau (J. Jacobs)
EPA Region VI (D. Neleigh)
EPA Region VI (B. Sturdivant)

FINAL
VOLUME I

PHASE I RCRA FACILITY INVESTIGATION REPORT FOR LANDFILL NO. 5 (SWMU NO 113/IRP NO. LF-5) PROJECT CZQZ 92 7007 CANNON AIR FORCE BASE CLOVIS, NEW MEXICO

Prepared for
U.S. Department of the Army
Corps of Engineers, Omaha District
Omaha, Nebraska
May 1998

Woodward-Clyde

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TABLE OF CONTENTS

Section			Page
LIST OF ACRONYMS			
EXECUTIVE SUMMARY			
1.0	INTRODUCTION		1-1
	1.1	PURPOSE AND SCOPE OF REPORT	1-1
	1.2	REGULATORY FRAMEWORK	1-2
	1.3	REPORT ORGANIZATION	1-3
	1.4	INSTALLATION BACKGROUND INFORMATION	1-4
		1.4.1 Description and History of Cannon Air Force Base	1-4
		1.4.2 Facility Characteristics	1-5
2.0	PHYSICAL CHARACTERISTICS		2-1
	2.1	SWMU DESCRIPTION	2-1
		2.1.1 Setting	2-1
		2.1.2 History of Use	2-1
		2.1.3 Previous Investigations Pertinent to Landfill No. 5	2-2
		2.1.4 Land Use and Demography	2-4
	2.2	REGIONAL SOILS	2-4
	2.3	REGIONAL GEOLOGY AND HYDROGEOLOGY	2-5
3.0	FIELD INVESTIGATION OBJECTIVES, METHODS AND RESULTS		3-1
	3.1	LANDFILL NO. 5 FIELD INVESTIGATION OBJECTIVES	3-1
	3.2	FIELD OBJECTIVES, METHODS AND RESULTS	3-2
		3.2.1 Site Topographic Survey and Mapping	3-3
		3.2.2 Geophysical Investigation	3-3
		3.2.3 Soil Gas Investigation	3-8
		3.2.4 Surface and Subsurface Soil Investigation	3-12
	3.3	SITE GEOLOGY AND LANDFILL WASTE CHARACTERIZATION	3-21

Section		Page
4.0	NATURE AND EXTENT OF CONTAMINATION	4-1
4.1	INTRODUCTION	4-1
4.2	QUALITY ASSURANCE/QUALITY CONTROL OF DATA	4-1
4.2.1	Specific Types of QA/QC Activities	4-3
4.2.2	Results of DCQAP-Required Activities	4-7
4.2.3	Data Validation	4-7
4.2.4	Summary	4-26
4.3	SURFACE AND SUBSURFACE SOIL	4-29
4.3.1	Commonly Occurring Elements	4-30
4.3.2	Metals	4-31
4.3.3	Semivolatile Organic Compounds	4-40
4.3.4	Volatile Organic Compounds	4-43
4.3.5	Pesticide/PCB Compounds	4-46
4.3.6	Total Recoverable Petroleum Hydrocarbons	4-46
4.3.7	Cyanide	4-46
4.3.8	Herbicides	4-47
4.3.9	Dioxins and Furans	4-47
4.4	SEMIVOLATILE AND VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS	4-47
4.5	LANDFILL WASTE MATERIAL	4-57
5.0	CONTAMINANT FATE AND TRANSPORT	5-1
5.1	EXPOSURE PATHWAYS AND POTENTIAL CONTAMINANT TRANSPORT MECHANISMS	5-1
5.1.1	Air	5-3
5.1.2	Leaching (Vadose Zone)	5-3
5.1.3	Groundwater	5-4
5.2	PHYSICAL AND CHEMICAL PROPERTIES	5-5
5.2.1	Volatilization	5-5

Section		Page
	5.2.2 Aqueous Solubility	5-6
	5.2.3 Adsorption	5-7
	5.2.4 Biodegradation	5-9
	5.2.5 Other Physical and Chemical Properties	5-9
5.3	CONTAMINANT PERSISTENCE	5-10
	5.3.1 Semivolatile Organics	5-10
	5.3.2 Volatile Organics	5-12
	5.3.3 Metals	5-14
5.4	EXPOSURE ASSESSMENT	5-16
	5.4.1 Current and Future Land Use	5-17
	5.4.2 Potentially Exposed Populations	5-17
	5.4.3 Exposure Pathways and Routes	5-18
	5.4.4 Exposure Scenarios Evaluated in the Human Health Risk Screen (HHRS)	5-20
6.0	HUMAN HEALTH RISK SCREEN	6-1
6.1	METHODOLOGY	6-1
	6.1.1 Imminent Threat Evaluation	6-2
	6.1.2 Identification of Chemicals of Interest	6-2
	6.1.3 Comparison of Maximum Concentrations to Proposed RCRA Action Levels	6-3
	6.1.4 Evaluation of Cumulative Health Hazard/Cancer Risk	6-5
6.2	RESULTS OF THE HHRS	6-6
	6.2.1 Imminent Threat Evaluation	6-6
	6.2.2 Chemicals of Interest	6-6
	6.2.3 Comparison of Site Exposure Concentrations to Proposed RCRA Action Levels	6-6
	6.2.4 Evaluation of Cumulative Health Hazards/Cancer Risks	6-7

Section		Page
6.3	UNCERTAINTY IN THE ASSESSMENT	6-8
6.3.1	Uncertainty Associated with Performing a Screening-Level Risk Assessment	6-8
6.3.2	Tentatively Identified Compounds	6-9
6.3.3	Compounds Without Toxicity Values	6-12
6.4	CONCLUSION	6-13
7.0	RELEVANT AND APPROPRIATE STANDARDS	7-1
7.1	DEFINITION OF RASs	7-2
7.2	CHEMICAL-SPECIFIC RASs	7-3
7.3	TBCs	7-4
7.4	LOCATION-SPECIFIC RASs	7-4
7.5	COMPARISON OF LABORATORY RESULTS TO TBCs	7-5
8.0	CONCLUSIONS AND RECOMMENDATIONS	8-1
9.0	REFERENCES	9-1

LIST OF TABLES

TABLE 1-1	COMPARISON OF RCRA AND IRP - CERCLA PROCESS
TABLE 1-2	FEDERAL- AND STATE-PROTECTED ANIMALS POTENTIALLY OCCURRING IN THE VICINITY OF CANNON AFB (CURRY COUNTY)
TABLE 3-1	SOIL GAS SURVEY GC SAMPLE RESULTS SUMMARY
TABLE 3-2	SOIL BORING LOCATIONS FOR LANDFILL NO. 5 INCLUDING LOCATION RATIONALE
TABLE 3-3	DRUM INVENTORY
TABLE 3-4	SOIL BORING SUMMARY
TABLE 3-5	SUMMARY OF SURFACE SOIL, SUBSURFACE SOIL, AND QA/QC SAMPLES COLLECTED FOR CHEMICAL OR GEOTECHNICAL GRAIN SIZE ANALYSIS
TABLE 3-6	LABORATORY GRADATIONAL ANALYSIS COMPARED TO FIELD USC CLASSIFICATION
TABLE 4-1	MINIMUM, MAXIMUM, AND MEAN VALUES OF MAJOR ELEMENTS MEASURED IN SOIL SAMPLES AT LANDFILL NO. 5
TABLE 4-2 through 4-31	METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS (Boring 113-01 through Boring 113-30)
TABLE 4-32	METAL CONCENTRATIONS THAT EXCEEDED THE BACKGROUND RANGE IN SURFACE AND SUBSURFACE SAMPLES
TABLE 4-33	METAL CONCENTRATIONS ABOVE THE BACKGROUND RANGE IN SUBSURFACE SAMPLES
TABLE 4-34	METALS WITH DETECTION LIMITS ABOVE THE BACKGROUND
TABLE 4-35	SUMMARY OF SEMIVOLATILE ANALYTES DETECTED IN SURFACE AND SUBSURFACE SOIL
TABLE 4-36	SUMMARY OF VOLATILE ANALYTES, TRPH, TOTAL SULFIDE AND TOC DETECTED IN SURFACE AND SUBSURFACE SOIL SAMPLES
TABLE 4-37	SUMMARY OF SEMIVOLATILE ORGANIC TENTATIVELY IDENTIFIED COMPOUNDS DETECTED IN SURFACE AND SUBSURFACE SOIL
TABLE 4-38	SUMMARY OF VOLATILE ORGANIC TENTATIVELY IDENTIFIED COMPOUNDS DETECTED IN SURFACE AND SUBSURFACE SOIL

TABLE 4-39 SUMMARY OF VOLATILE AND SEMI-VOLATILE TICs AND THEIR OCCURRENCE IN SURFACE AND SUBSURFACE SOIL AT LANDFILL NO. 5
TABLE 5-1 CHEMICALS OF INTEREST
TABLE 5-2 PHYSICAL AND CHEMICAL PROPERTIES OF ORGANIC CHEMICALS OF INTEREST
TABLE 6-1 SELECTION OF CHEMICALS OF INTEREST
TABLE 6-2 CHEMICALS OF INTEREST
TABLE 6-3 RISK-BASED SCREENING OF CARCINOGENIC CHEMICALS OF INTEREST
TABLE 6-4 RISK-BASED SCREENING OF NONCARCINOGENIC CHEMICALS OF INTEREST
TABLE 6-5 SAMPLING RESULTS FOR HAZARD/RISK DRIVERS IN SOIL
TABLE 6-6 TENTATIVELY IDENTIFIED COMPOUNDS (TICs)
TABLE 6-7 CATEGORIES OF TENTATIVELY IDENTIFIED COMPOUNDS (TICs)
TABLE 7-1 SUMMARY OF POTENTIAL CHEMICAL-SPECIFIC RASs/TBCs
TABLE 7-2 SUMMARY OF POTENTIAL LOCATION-SPECIFIC RASs
TABLE 7-3 POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs GROUNDWATER QUALITY STANDARDS
TABLE 7-4 POTENTIAL SCREENING CONCENTRATIONS FOR INORGANIC COMPOUNDS IN SOIL (To Be Considered)
TABLE 7-5 POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL (To Be Considered)

LIST OF FIGURES

FIGURE 1-1 VICINITY MAP
FIGURE 1-2 IRP/SWMU SITE LOCATION MAP
FIGURE 1-3 GEOMORPHIC PROVINCE MAP
FIGURE 2-1 TOPOGRAPHIC BASE MAP OF LANDFILL NO. 5
FIGURE 2-2 DISTRIBUTION OF SOILS BY TYPE
FIGURE 2-3 GENERALIZED GEOLOGIC MAP
FIGURE 2-4 GENERALIZED GEOLOGIC COLUMN OF CANNON AFB, NEW MEXICO
FIGURE 2-5 ALTITUDE AND CONFIGURATION OF WATER TABLE, VICINITY OF CANNON AFB, NEW MEXICO
FIGURE 2-6 WATER WELL LOCATIONS
FIGURE 3-1 GEOPHYSICAL STATION LOCATION MAP

FIGURE 3-2	COMPARISON OF TOTAL MAGNETIC FIELD RESULTS TO LANDFILL CELL BOUNDARIES
FIGURE 3-3	SOIL GAS SURVEY SAMPLE LOCATION MAP
FIGURE 3-4	COMPARISON OF SOIL GAS SURVEY FIELD PID RESULTS TO GEOPHYSICAL SURVEY TOTAL FIELD MAGNETIC RESULTS
FIGURE 3-5	SOIL GAS SURVEY MOBILE LABORATORY GC RESULTS
FIGURE 3-6	SOIL BORING LOCATIONS LANDFILL NO. 5
FIGURE 3-7	GEOLOGIC PROFILE A-A'
FIGURE 3-8	GEOLOGIC PROFILE B-B'
FIGURE 3-9	GEOLOGIC PROFILE C-C'
FIGURE 3-10	GEOLOGIC PROFILE D-D'
FIGURE 3-11	GEOLOGIC PROFILE E-E'
FIGURE 4-1	INORGANIC & ORGANIC CHEMICAL CONCENTRATIONS IN SOIL GEOLOGIC PROFILE A-A'
FIGURE 4-2	INORGANIC & ORGANIC CHEMICAL CONCENTRATIONS IN SOIL GEOLOGIC PROFILE B-B'
FIGURE 4-3	INORGANIC & ORGANIC CHEMICAL CONCENTRATIONS IN SOIL GEOLOGIC PROFILE C-C'
FIGURE 4-4	INORGANIC & ORGANIC CHEMICAL CONCENTRATIONS IN SOIL GEOLOGIC PROFILE D-D'
FIGURE 4-5	INORGANIC & ORGANIC CHEMICAL CONCENTRATIONS IN SOIL GEOLOGIC PROFILE E-E'
FIGURE 4-6	SEMI-VOLATILE, VOLATILE AND PETROLEUM RELATED TENTATIVELY IDENTIFIED COMPOUNDS AND TPH IN SOIL GEOLOGIC PROFILE A-A'
FIGURE 4-7	SEMI-VOLATILE, VOLATILE AND PETROLEUM RELATED TENTATIVELY IDENTIFIED COMPOUNDS AND TPH IN SOIL GEOLOGIC PROFILE B-B'
FIGURE 4-8	SEMI-VOLATILE, VOLATILE AND PETROLEUM RELATED TENTATIVELY IDENTIFIED COMPOUNDS AND TPH IN SOIL GEOLOGIC PROFILE C-C'
FIGURE 4-9	SEMI-VOLATILE, VOLATILE AND PETROLEUM RELATED TENTATIVELY IDENTIFIED COMPOUNDS AND TPH IN SOIL GEOLOGIC PROFILE D-D'
FIGURE 4-10	SEMI-VOLATILE, VOLATILE AND PETROLEUM RELATED TENTATIVELY IDENTIFIED COMPOUNDS AND TPH IN SOIL GEOLOGIC PROFILE E-E'
FIGURE 5-1	PRELIMINARY EXPOSURE PATHWAY FLOW CHART LANDFILL NO. 5
FIGURE 6-1	DECISION DIAGRAM FOR LANDFILL NO. 5

LIST OF APPENDICES

APPENDIX A SURVEYOR NOTES
APPENDIX B GEOPHYSICAL SURVEY TECHNICAL REPORT
APPENDIX C SOIL GAS SURVEY TECHNICAL REPORT
APPENDIX D LITHOLOGIC BORING LOGS AND GEOTECHNICAL ANALYSIS
APPENDIX E VALIDATED ANALYTICAL RESULTS
APPENDIX F DATA VALIDATION REPORT

µg/g	microgram per gram
%D	percent difference
%R	percent recovery
ACC	Air Combat Command
AFB	Air Force Base
ARARs	Applicable or Relevant and Appropriate Requirements
ATV	all-terrain vehicle
bgs	below ground surface
B.P.	Before Present
CCAL	continuing calibration
CCB	continuing calibration blanks
CEC	cation exchange capacity
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CL	inorganic clays
CLP	Contract Laboratory Program
CME	Central Mine Equipment
CMI	Corrective Measures Implementation
CMS	Corrective Measures Study
cm/sec	centimeters per second
COC	Chain of Custody
COI	chemicals of interest
CRQL	contract required quantitation limit
CUZ	Compatible Use Zones
DBC	dibutylchlorendate
DBCP	1,2-dibromo-3-chloropropane
DCB	decachlorobiphenyl
DCQAP	Data Collection Quality Assurance Plan
DCS	duplicate control samples
DMP	Data Management Plan
DOD	(U.S.) Department of Defense
DQCRs	Daily Quality Control Reports
EM	electromagnetic
EPA	Environmental Protection Agency
EPFC	Exposure Pathways Flow Chart
FS	Feasibility Study
FSP	Field Sampling Plan
Fy	fiscal year
gal/ft	gallon per foot
GC	gas chromatography
GFAA	graphic furnace atomic absorption

gpm	gallon per minute
HHRS	human health risk screen
ICP	inductively coupled plasma
IRP	Installation Restoration Program
LCS	laboratory control samples
LOQ	Limit of Quantitation
MCGL	Maximum Contaminant Goals
MCL	maximum contaminant level
MCP	Military Construction Program
MFH	military family housing
mg/kg	milligrams per kilogram
mg/L	milligram per liter
ML	inorganic silts
mph	miles per hour
MRD	Missouri River Division
MS/MSD	Matrix Spike/Matrix Spike Duplicate
msl	mean sea level
NAPL	non-aqueous phase liquids
NCP	National Contingency Plan
NMED	New Mexico Environmental Department
NPL	National Priority List
NWR	National Wildlife Refuge
OD	outside diameter
OPP	organophosphorus pesticides
OSHA	Occupational Safety and Health Administration
PA	Preliminary Assessment
PAHs	polynuclear aromatic hydrocarbons
PCBs	polychlorinated biphenyl hydrocarbons
PCDDs/PCDFs	polychlorinated dibenzodioxins/polychlorinated dibenzofurans
PCE	tetrachloroethylene
PID	photoionization detector
PMP	Project Management Plan
ppm/v	part per million on a volume by volume basis
PRG	preliminary remediation goal
PRP	potentially responsible party
PRT	Post Run Tubing
QA/QC	Quality Assurance/Quality Control
RAS	Relevant and Appropriate Standards
RCRA	Resource Conservation and Recovery Act
RD/RA	Remedial Design/Remedial Action
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
ROD	Record of Decision

RPD	relative percent difference
RRF	relative response factors
RRT	relative retention time
RSD	relative standard deviations
RT	retention time
SARA	Superfund Authorization and Responsibility Act
SC	clayey sand
SCS	single control samples
SDWA	Safe Drinking Water Act
SI	Site Investigation
SM	silty sand
SMCLs	secondary maximum contamination levels
SOPs	Standard Operating Procedures
SOS	Scope of Service
SP	poorly graded fine-grained sand
SQL	sample quantitation limit
SSHP	Site Safety and Health Plan
SVOCs	Semi-Volatile Organic Compounds
SW	well-graded sands
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TBC	to be considered guidance materials
TCE	trichloroethylene
TCL	Target Compound List
TCX	tetrachloro-m-xylene
TFW	Tactical Fighter Wing
TIC	tentatively identified compound
TOC	Total Organic Carbon
TRPH	Total Recoverable Petroleum Hydrocarbons
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USCS	Unified Soil Classification System
USDA-SCS	United States Department of Agriculture-Soil Conservation Service
USFWS	United States Fish and Wildlife Service
UST	underground storage tank
UTL	upper tolerance level
VOC	Volatile Organic Compound
W-C	Woodward-Clyde
WCFS	Woodward-Clyde Federal Services

A Phase I RCRA Facility Investigation (RFI) was conducted to evaluate the nature and extent of potential soil contamination at Landfill No. 5 (SWMU No. 113/IRP No. LF-5) located at the Cannon Air Force Base Installation (Cannon AFB) near Clovis, New Mexico. This SWMU was identified during a RCRA Facility Assessment (RFA) performed by the U.S. Environmental Protection Agency in 1987.

The Phase I RFI was conducted to satisfy requirements of the United States Air Force (USAF) Installation Restoration Program (IRP), as well as the conditions of the Cannon AFB RCRA operating permit. Activities for the Phase I RFI effort at Landfill No. 5 were performed in accordance with the RFI Work Plan documents prepared by Woodward-Clyde (W-C) as specified in the United States Army Corps of Engineers (USACE) Scope of Service (SOS) for the Phase I Investigation dated June 18, 1993. The Work Plan was approved by the New Mexico Environment Department (NMED) on June 14, 1995.

A human health risk screen was performed as part of the RFI to help support risk decisions for Landfill No. 5.

Field Activities

The Phase I RFI field activities were carried out during 1995 and consisted of site topographic surveying and mapping, surface geophysical surveying, a soil gas investigation, and surface and subsurface soil investigation.

The site topographic surveying and mapping were conducted just prior to the start of the geophysical surveys.. A survey grid was established by a local land surveying company (licensed in the state of New Mexico) to provide a detailed topographic base map, establish a survey grid at 50-foot centers across Landfill No. 5, and locate soil borings drilled during the investigation.

Following the site surveying and mapping by the licensed land surveyor W-C conducted electromagnetic (EM) and magnetic surveys across Landfill No. 5. These surveys were conducted from January 19 through January 27, 1995. The objectives of the geophysical investigation included:

- Delineating the edges of the landfill
- Locating waste-filled pits, trenches or cells within the landfill
- Identifying potential areas of contamination
- Obtaining information for use in performing the soil gas survey

For the investigation at Landfill No. 5, EM data were collected with a Geonics EM-31 and magnetic surveys were performed using as GEM GSM-19 portable magnetometer/ gradiometer.

Upon completion of the EM and magnetic surveys, the data were downloaded into a personal computer and geophysical contour maps produced. In interpreting the geophysical results, the likely causative contributors to an anomaly were considered. The geophysical contour maps appeared to be consistent with the reported historical activities known to have taken place at the site. The eastern portion of Landfill No. 5 was dominated by north-south trending linear anomalies indicative of trenching activities. East-west trending or southwest trending anomalies were depicted in the southern portion of Landfill No. 5 also indicative of trenching type activities. In the western portion of the surveyed area of Landfill No. 5, a much more random distribution of geophysical anomalies existed, with few discernible linear trends supporting historical reports that landfill materials may have been deposited in this area using a semi-random landfill disposal operation (i.e., filling of natural depressions) rather than using a trenching disposal method.

A soil gas investigation was then conducted following the completion and interpretation of the surface geophysical surveys. The geophysical data results aided in the soil gas investigation by helping to optimize soil sampling locations across Landfill No. 5.

The purpose of performing the soil gas investigation was to identify areas of elevated concentrations of volatile organic compounds (VOCs) in the soil gas at Landfill No. 5. The

soil gas survey was performed as a two-phase investigation. The first phase of the soil gas survey consisted of collecting and field screening soil gas samples at 800 locations using a field photoionization detector (PID). Soil gas samples were collected using a geoprobe. One-inch diameter soil gas sampling probes were driven into the soil to the targeted depth and a soil gas sample extracted and collected into a syringe. The soil gas was then expelled from the syringe into the orifice of the field PID and a maximum reading noted and recorded.

With few exceptions, the highest PID field screening results occurred within or adjacent to the mapped landfill trench boundaries and or in the area of geophysical anomalies as identified from the magnetic and electromagnetic survey results.

Following review of the PID soil gas results, 78 soil gas samples were collected and analyzed for VOCs using a gas chromatograph (GC). Of these 78 locations analyzed for VOCs, 51 of the locations indicated concentrations below the laboratory reporting limit of 1.2 parts per million on a volume to volume basis (ppm/v). Thirty-seven of the locations detected VOCs above the laboratory reporting limit with sixteen different VOC analytes being reported in the soil gas samples. For the sixteen analytes detected in GC analysis of the soil gas, 74 percent of the reported detections were at concentrations below 5.0 ppm/v.

The 16 VOC analytes tentatively identified can be separated into three analyte classes: (1) petroleum related or fuel additive compounds (i.e., 5 analytes including; benzene, toluene, ethylbenzene, xylenes, and chloroethane); (2) compounds commonly used in refrigerants or as blowing (foam) agents (i.e., 3 analytes including; trichlorofluoromethane, dichlorodifluoromethane, and chloromethane); and (3) compounds typically used as solvents (i.e., 8 analytes; dichloromethane [methylene chloride], tetrachloroethylene [PCE], trichloroethylene [TCE], 1,1,1,2-tetrachloroethane, 1,1,1-trichloroethane, 1,1-dichloroethylene, chlorobenzene, and trans 1,2-dichloroethylene). Results showed that VOCs were present at low concentrations in soil gas at distinct locations within or adjacent to previously mapped landfill trenches.

Following the surface geophysical surveys and the soil gas investigation, a surface and subsurface soil investigation was designed based on the results of these two investigations

The geophysical results provided a better estimation of individual trench locations and the soil gas investigation aided in drilling in those areas of suspected VOC contamination within the landfill trenches or cells. Selected boring locations were preapproved by the USACE and NMED.

The surface and subsurface investigation for the Phase I RFI was conducted from July 17 through August 1, 1995. Thirty analytical soil borings and three geotechnical borings were drilled, and surface/subsurface soil samples were collected and submitted for chemical analysis. Borings were drilled to depths of approximately 40 feet below the landfill/native soil interface. At 10 of the 30 analytical boring locations, one surface sample was collected and analyzed for VOCs, SVOCs, pesticides/PCB, metals, cyanide and TRPH. Borings were drilled using a truck-mounted Central Mine Equipment (CME) 75 high-torque auger drill rig using hollow-stem augers. CME 5-foot continuous core barrels with polybutyrate liners were used to collect samples for description of the landfill waste material. Upon retrieval and opening of each core barrel soil, landfill waste was extruded from the polybutyrate lines onto the core barrel and a PID was used to screen the entire sample for the presence of volatile organic vapors.

After sampling through the landfill waste material and identifying the landfill/native soil interface, soil samples were collected for chemical and/or lithologic description at approximate 5-foot intervals to 40 feet below the landfill native soil interface using a 2-foot-long, modified California split spoon with stainless steel liners. Upon retrieval and opening of the split spoon, the PID was used to screen the entire sample for the presence of volatile organic vapors. The stainless steel liner displaying the highest PID reading in the split spoon was selected for VOC analysis; otherwise, the bottom-most liner within the split spoon sampler was selected and submitted to the laboratory for VOC analysis. The remaining soil was then extracted from the stainless steel liners, homogenized and placed into appropriate jars.

Nature and Extent of Contamination

To describe the nature and extent of surface and subsurface soil contamination at Landfill No. 5, surface and subsurface soil that contained metals above background and chemical

compounds that do not occur naturally in the environment were identified. Chemicals analyzed during the Phase I RFI included metals, VOCs, semi-volatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls (PCBs), cyanide, herbicides, dioxin and furans, total recoverable petroleum hydrocarbons (TRPH) and volatile and semivolatile tentatively identified (TIC) compounds. The occurrence of these compounds are discussed below:

Metals

Three elements, calcium, potassium and sodium, were considered to be naturally occurring even though there were exceedances of these elements above background concentrations and were not considered to be contaminants at Landfill No. 5.

Nine metals were detected above background in the surface soil samples collected and analyzed during the Phase I RFI. Their frequency of occurrence, the borings where they were found, and the range of reported concentrations are summarized below:

Analyte	Frequency	Boring(s)	Range or Maximum Concentration(s) Reported Above Background (mg/kg)	Established Background Range for Cannon AFB (mg/kg)[1]
Beryllium	1 sample	113-04	0.7	0 - 0.6
Chromium	1 sample	113-16	19.2	0.8 - 12
Cobalt	1 sample	114-04	5	0 - 4
Iron	1 sample	113-04	9,610	0 - 8,654
Lead	2 samples	113-16, 113-22	41.4-78.2	0 - 18.4
Manganese	1 sample	113-04	275	0 - 151.8
Potassium	1 sample	113-04	2,970	0 - 2,531
Sodium	1 sample	113-13	3,920	0 - 834
Zinc	4 samples	113-04, 113-16, 113-22, 113-28	21.8-28.2	0 - 20.7

[1] Source: Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

Of these 9 metals, 5 metals (beryllium, cobalt, lead, manganese, and sodium) were found exclusively in surface samples. However, in all cases, the metals detected above the maximum background value in surface soil samples were not found above background at depth in any of the borings. The occurrence of some of these metals above the background values (i.e., lead, cobalt, beryllium, chromium, iron and zinc) are likely due to the presence of pieces of scrap metal on the ground surface at Landfill No. 5.

In the subsurface soil collected and analyzed during the Phase I RFI, 8 metals (arsenic, beryllium, cadmium, cobalt, antimony, mercury, selenium and thallium) were not detected at concentrations above background and were, therefore, not further evaluated within the RFI report.

Ten metals were detected in subsurface soil at Landfill No. 5 at concentrations above the established background range for soil at Cannon AFB. The frequency of occurrence in subsurface samples, the range of reported concentrations above background, and the background range of each metal are summarized below:

Analyte	Frequency of Occurrence Above Background	Range or Maximum Concentration(s) Reported Above Background (mg/kg)	Established Background Range for Cannon AFB (mg/kg)[1]
Aluminum	1 sample in one boring	11,100	593 - 10,796
Barium	9 samples in seven borings	595 - 5,050	0 - 548
Chromium	5 samples in four borings	14.1 - 40.7	0.8 - 12.0
Copper	7 samples in five borings	11.6 - 63.6	0 - 10.1
Iron	2 samples in two borings	8,810 - 9,580	0 - 8,654
Magnesium	8 samples in seven borings	10,200 - 16,300	0 - 9,912
Nickel	11 samples in ten borings	10.4 - 68.6	0 - 9.7
Silver	1 sample in one borings	4.8	0 - 1.8
Vanadium	7 samples in five borings	25.5 - 36.7	1.7 - 25.0
Zinc	4 samples in four borings	23.4 - 59	0 - 20.7

[1] Source: Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

These 10 metals were detected in at least one subsurface soil sample above the background range established in an earlier study for Cannon AFB. Out of 1,500 analytical results for these 10 metals, background was exceeded for only 55 results (i.e., a frequency of 4 percent). Given the isolated and random occurrence of these metals above background within individual borings and areally across Landfill No. 5, it appears that site-specific geologic factors probably account for exceedences and these metals are not likely due to contamination from waste in the landfill cells. In a majority of cases, the metals listed above did not exceed background in the sample collected immediately beneath the landfill cell. Typically within the same boring the metal exceeding background was not detected above background in samples collected above or below the interval where the exceedence occurred.

Volatile Organic Compounds

A total of 8 VOCs (i.e., 1,1,2,2-tetrachloroethane, 2-hexanone, 4-methyl-2-pentanone, acetonitrile, carbon disulfide, ethylbenzene, styrene, and toluene) were detected at 16 boring locations scattered across Landfill No. 5. The distribution and occurrence of these VOCs in subsurface soil samples, the borings in which they were found, and the range of concentrations detected are summarized below.

Analyte	Frequency of Detection	Boring(s)	Detected Concentrations (µg/kg)
1,1,2,2 - Tetrachloroethane	4 samples	113-21	2.3J to 8.2
2-Hexanone	6 samples	113-05, 113-10, 113-16, 113-17, 113-24	1.5J-8.3J
4-Methyl-2-pentanone (MIBK)	5 samples	113-10, 113-16, 113-17	2.5J-230
Acetonitrile	4 samples	113-05, 113-07, 13-08, 113-12	16J to 67J
Carbon disulfide	1 sample	113-06	2.9J
Ethylbenzene	1 sample	113-13	300

Analyte	Frequency of Detection	Boring(s)	Detected Concentrations (µg/kg)
Styrene	1 sample	113-13	1400
Toluene	7 samples	113-04, 113-10, 113-18, 113-22, 113-24, and 113-25	1J-4.9J

These 8 VOCs were detected in subsurface soil a total of 29 times out of 1,200 analytical results for these chemicals — a frequency of 3 percent. Concentration of the detected VOCs ranged from 1 "J" µg/kg to 1,400 µg/kg. Twenty-four of the 29 detections were below the laboratory reporting limit and were therefore in the range for which quantitation is considered uncertain and were qualified as estimated. Detection of ethylbenzene and styrene at concentrations of 300 µg/kg and 1,400 µg/kg, respectively, in boring 113-13 and 4-methyl-2-pentanone (MIBK) at 230 µg/kg immediately beneath the landfill cells are the only results indicative of a potential release of VOCs. Two of these compounds (i.e., ethylbenzene and styrene) were not detected in deeper samples collected within boring 113-13, while MIBK was detected in the two deeper intervals collected in boring 113-16 below the interval sampled immediately beneath the landfill cell.

Detections of the 8 VOCs in surface soil samples occurred at values below the laboratory reporting limit except for the detection of styrene (8.2 µg/kg) at location 113-13.

Semivolatile Organic Compounds

Twelve SVOCs were detected in 11 subsurface soil samples. These included 7 PAHs (2-methylnaphthalene, acenaphthene, chrysene, fluoranthene, fluorene, phenanthrene, pyrene), 3 phenols (4-methylphenol, 4-nitrophenol, phenol), and 1 furan (dibenzofuran). There were no occurrences of SVOCs detected in surface soil samples collected. The distribution and occurrence of the SVOCs in subsurface soil samples, the borings they were found in, and the range of concentrations detected are summarized below:

Polynuclear Aromatic Hydrocarbons

Analyte	Frequency of Detection	Boring(s)	Detected Concentrations (µg/kg)
2-Methylnaphthalene	1 sample	113-13	85J
Acenaphthene	3 samples	113-01 and 113-13	37J-82J
Chrysene	1 sample	113-13	38J
Fluoranthene	2 samples	113-01 and 113-13	67J-93J
Fluorene	2 samples	113-01 and 113-13	41J-69J
Phenanthrene	2 samples	113-01 and 113-13	41J-220J
Pyrene	2 samples	113-01 and 113-13	74J-88J

Phenols

Analyte	Frequency of Detection	Boring(s)	Detected Concentrations (µg/kg)
4-Methylphenol	2 samples	113-16 and 113-24	68J-100J
4-Nitrophenol	2 samples	113-15	49J-69J
Phenol	2 samples	113-01, 113-16 and 113-17	40J-88J

Furans

Analyte	Frequency of Detection	Boring(s)	Detected Concentrations (µg/kg)
Dibenzofuran	1 sample	113-13	44J

PAH compounds were restricted to 2 borings (i.e., 113-01 and 113-13). The concentrations were all below the laboratory reporting limit of 360 µg/kg. As such, they were in the range for which quantitation of sample results is uncertain and were qualified as estimated. It should be noted that PAHs in boring 113-01 occurred in the sample collected at 63 feet, but

not in shallower samples. Additionally, the PAHs in boring 113-13 were, for the most part, detected in the sample at 40 feet with significantly fewer detections above or below this sample.

Phenols were detected eight times scattered over 5 borings all at values equal to or below the laboratory reporting limit. In 2 borings, no phenols were detected in the sample collected immediately beneath the landfill cell. However, phenol was detected immediately beneath the landfill cell at 360 µg/kg and 40 "J" µg/kg in borings 113-0 and 113-15, respectively. The SVOC 4-methylphenol (100 "J" µg/kg) and 4-nitrophenol (49 "J" µg/kg) were also detected immediately beneath the landfill cell in borings 113-16 and 113-15, respectively. These data indicate that a minor release of phenols possibly could have occurred at borings 113-0, 113-15, and 113-16.

Dibenzofuran was detected in only one sample (44 "J" µg/kg) collected at Landfill No. 5. This detection occurred in the second interval sampled below the landfill cell in boring 113-13.

PCBs

Only one detection of Aroclor 1254 at a minor concentration of 75 µg/kg occurred during the Phase I RFI and this result does not indicate a significant release has occurred to subsurface soil at Landfill No. 5 for this compound.

Pesticides, herbicides and cyanide, dioxins and furans

No pesticides, herbicides, cyanide or dioxins and furans were detected in surface or subsurface soil samples collected during the Phase I RFI.

TRPH

TRPH was detected in 6 surface soil samples and 4 subsurface soil samples at concentrations ranging from 43.5 mg/kg to 170 mg/kg. These results indicate the presence of only minor contamination.

Volatile and Semivolatile TICs

During the Phase I RFI, volatile and semivolatile organic TICs were reported in several samples by the laboratory. These TICs were categorized based on the nature of the compound and on professional judgment as to their potential toxicity to the environment or human health. The majority of these compounds appeared to be potentially non-toxic and included alcohols, ketones, fatty acids and esters, saturated hydrocarbons and unknowns. TICs with potential toxicity were further evaluated in the human health risk screen.

In summary, it appears that if a release of hazardous constituents has occurred at Landfill No. 5, it has been insignificant. Additionally, based on the fact that free liquids or soil saturated with liquid wastes were not observed within the landfill wastes while drilling, the potential for a release to occur at Landfill No. 5 in the future is minimal.

Chemical Fate and Transport

Chemicals detected at Landfill No. 5 were grouped into SVOCs, VOCs, and metals to evaluate fate and transport. The following conclusions were drawn from the evaluation:

SVOCs

- PAH compounds are likely to be relatively immobile, but could persist for long periods of time in the subsurface soil environment due to low biodegradation rates.

- PCBs are likely to be relatively immobile and may persist in the subsurface soil environment.

- Phenol compounds appear to be highly mobile but would not likely persist for long periods of time in the subsurface soil environment due to high biodegradation rates.

VOCs

As a group, the VOCs are likely to be medium to highly mobile in the subsurface soil environment. However, these chemicals would not likely persist for long periods of time due to high volatilization potential and very high biodegradation rates (excluding the chlorinated solvent 1,1,2,2-tetrachloroethane). When considering biodegradation, 1,1,2,2-Tetrachloroethane could persist in the environment since biodegradation of this compound occurs very slowly if at all under aerobic conditions with low organic carbon content, as found in the vadose zone at Landfill No. 5.

Metals

Based on general characteristics of subsurface soil at Landfill No. 5 which include moderate clay content and an alkaline soil pH, metals are not likely to be mobile in the subsurface but would likely persist for long periods of time. The potential for precipitation of metals in the subsurface, thus limiting downward migration in the vadose zone, is evidenced by caliche layers encountered in the borings drilled during the Phase I RFI.

Human Health Risk Screen

A Human Health Risk Screen (HHRS) was performed as part of the Phase I evaluation for Landfill No. 5. The purpose of the HHRS was to determine whether chemicals of interest (COIs) were detected in soil at levels that may pose an unacceptable risk to human health. Maximum site concentrations were compared to proposed RCRA Action Levels for residential soil ingestion to evaluate the potential for cumulative hazard/risk. The HHRS did not include estimating reasonable exposure concentrations or assessing current or future site-specific exposure conditions (e.g., future residential land use is considered to be extremely unlikely at this site). Conservative assumptions were used throughout the HHRS; therefore, the results of the assessment overestimate actual hazard/risk at the site.

COIs evaluated during the HHRS included:

Inorganic Compounds	Organic Compounds
Aluminum	1,1,2,2-Tetrachloroethene
Barium	4-Methyl-2-pentanone (MIBK)
Beryllium	4-Methylphenol
Chromium	4-Nitrophenol
Cobalt	Acenaphthene
Copper	Acetonitrile
Lead	Aroclor 1254
Manganese	Carbon disulfide
Nickel	Chrysene
Silver	Ethylbenzene
Tin	Fluoranthene
Vanadium	Fluorene
Zinc	Phenol
	Pyrene
	Styrene
	Toluene

Of the COIs, only one carcinogen, beryllium, had a maximum concentration (0.7 mg/kg) exceeding its proposed RCRA Action Level (0.2 mg/kg). This one maximum value was the only result for this metal that exceeded the upper limit of the background range (0.6 μg/kg) for 160 samples collected and analyzed. The associated cancer risk for beryllium, assuming a 70-year soil ingestion exposure to the maximum concentration, was 4E-06, well within EPA's target cancer risk range of 1E-06 to 1E-04. Estimated cumulative cancer risk from exposure to maximum concentrations of all detected carcinogens was also 4E-06 due to the presence of beryllium. When the 95% UCL of the arithmetic mean is used to represent the exposure concentration of beryllium in soil, the site concentration (0.24 mg/kg) is approximately equal to the proposed RCRA Action Level (0.2 mg/kg) and the chemical-specific and cancer risk is approximately 1E-06 from soil ingestion. Because the use of maximum detected concentrations overestimates cancer risk for each COI, and cancer risk estimates were

nevertheless within EPA's target risk range, it was concluded that exposure to COIs at Landfill No. 5 is not likely to pose an unacceptable risk of cancer.

No noncarcinogenic chemical had a maximum concentration exceeding its proposed RCRA Action Level. The cumulative hazard index for noncarcinogenic effects was 1, indicating that maximum concentrations of noncarcinogenic chemicals in soil at Landfill No. 5 do not pose an unacceptable risk to human health.

A proposed RCRA Action Level could be calculated for only two TICs, acetic acid, ethyl ester (ethyl acetate) and acetic acid, methyl ester (methyl acetate) since toxicity factors were not available for the other reported TICs. The maximum detected concentration of ethyl acetate during the Phase I RFI was 0.11 mg/kg while the proposed RCRA Action Level was 70,000 mg/kg, yielding a hazard quotient of 2E-06. The maximum detected concentration of methyl acetate was 0.0074 mg/kg while the proposed RCRA Action Level was 80,000 mg/kg, yielding a hazard quotient of 9.3E-08. These values were well below 1 indicating that ethyl acetate and methyl acetate at the site will not pose a threat to human health. Remaining TICs were evaluated qualitatively and from that evaluation it was concluded that the TICs would not likely pose an unacceptable risk to human health.

Based on the results of the HHRS, it was concluded that COIs at Landfill No. 5 do not pose an unacceptable risk to human health.

Recommendations

Based on the results and conclusions of the Phase I RFI, **"No Further Action"** is recommended for this SWMU. This recommendation is supported by the lack of a significant release of hazardous constituents into subsurface soil and a human health risk screen that indicated an unacceptable risk to human health was not present from chemicals that were detected during the Phase I RFI for Landfill No. 5. Continued monitoring of groundwater quality from wells installed to assess potential impacts to groundwater from closed RCRA Cell No. 3 should be adequate for this SWMU.

1.0
INTRODUCTION

1.1 PURPOSE AND SCOPE OF REPORT

The purpose of this Phase I Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report is to present results of activities performed to characterize the nature and extent of contamination (if any) beneath Landfill No. 5, (Solid Waste Management Unit (SWMU) No. 113), at Cannon Air Force Base (AFB), Clovis, New Mexico. The information obtained from the Phase I investigation at Landfill No. 5 including laboratory analytical results was used to evaluate whether a release of hazardous constituents had occurred to subsurface soil beneath the landfill cells and, if so, whether remedial action (i.e., a Corrective Measures Study (CMS) under RCRA or a Feasibility Study (FS) under the Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA]) was necessary. A human health risk screen was also performed to support a decision regarding: (1) additional investigation (2) remedial action, or (3) no further action for this SWMU.

This RFI was conducted to satisfy requirements of the United States Air Force (USAF) Installation Restoration Program (IRP), as well as the conditions of the Cannon AFB RCRA operating permit. Activities for the Phase I RFI effort at Landfill No. 5 were conducted in accordance with the RFI Work Plan documents prepared by Woodward-Clyde (W-C) as specified in the United States Army Corps of Engineers (USACE) Scope of Service (SOS) for the Phase I investigation dated June 18, 1993. The RFI Work Plan (W-C 1995) included a Data Management Plan (DMP), Project Management Plan (PMP), Site Safety and Health Plan (SSHP) and Data Collection Quality Assurance Plan (DCQAP). These plans will hereafter be referred to as the Work Plan. The current Community Relations Plan for Cannon AFB was considered adequate by USACE and Cannon AFB, and therefore was not revised for the Landfill No. 5 investigation. These plans will hereafter be referred to as the Work Plan.

1.2 REGULATORY FRAMEWORK

As a condition of their RCRA Part B permit, Cannon AFB must evaluate SWMUs identified by the EPA during the RCRA Facility Assessment (RFA). Therefore, the Phase I investigation conducted at Landfill No. 5 by W-C was designed to satisfy RFI guidance for characterizing the SWMU and developing and implementing corrective action measures, if necessary. The New Mexico Environment Department (NMED) is the lead regulatory agency for the RFI conducted at Landfill No. 5. NMED approved the Phase I RFI Work Plan documents for Landfill No. 5 on June 14, 1995.

To satisfy funding requirements under the USAF IRP, the investigation conducted by W-C at Landfill No. 5 must also follow the IRP CERCLA-based environmental restoration program for characterizing the nature and extent of risks posed by uncontrolled hazardous waste sites and for evaluating potential remedial options. The USAF is the lead agency for implementing IRP activities.

The following discussion provides a brief comparison of the RCRA and CERCLA programs. While RCRA authorizes a general regulatory program to manage all hazardous wastes from "cradle-to-grave" (from generation to ultimate disposal), CERCLA provides authority to respond whenever a release or substantial threat of a release that threatens human health or the environment occurs. CERCLA is the more comprehensive statute, as CERCLA "hazardous substances" encompass RCRA "hazardous wastes" as well as other pollutants regulated by the Clean Air Act, and the Toxic Substances Control Act. Thus, all RCRA "hazardous wastes" may trigger CERCLA response actions when released into the environment.

Under the IRP program, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) is the CERCLA-based environmental restoration program response process.

The RCRA and CERCLA Superfund programs use different labels but follow roughly parallel procedures in responding to releases (Table 1-1).

1.3 REPORT ORGANIZATION

The Phase I RFI Report for Landfill No. 5 is organized into nine sections and appendixes described below:

- Section 1.0, Introduction, describes the report organization, states the purpose and scope of the report, discusses the regulatory framework, and provides the general background information for Cannon AFB.

- Section 2.0, Physical Characteristics, presents the landfill setting, history of use, past investigations, land use and demography and regional soil and geologic conditions at Landfill No. 5.

- Section 3.0, Field Investigation, presents the field investigation objectives and methods and describes the specific field investigation activities conducted at Landfill No. 5. In addition, site-specific soil and geologic conditions and the landfill waste characterization at Landfill No. 5 is described.

- Section 4.0, Nature and Extent of Contamination, presents the chemical analytical results along with an assessment of data quality and describes the nature and extent of contamination in the soils, if any, based on the RFI results.

- Section 5.0, Contaminant Fate and Transport, discusses the factors that affect the movement and persistence of the contaminants identified in Section 4.0, describes potential routes of contaminant migration, and provides support for the human health risk screen.

- Section 6.0, Human Health Risk Screen, presents the results of the risk screen performed for human health.

- Section 7.0, Relevant and Appropriate Standards (RASs), presents RASs used for evaluating the nature and extent of potential hazardous waste contamination at Landfill No. 5.

- Section 8.0, Conclusions and Recommendations, provides the conclusions and recommendations based on the results of the field investigation and the human health risk screen for Landfill No. 5.

- Section 9.0, References, lists references for documents used in preparation of the Phase I RFI Report.

- Appendixes

  - Appendix A contains the detailed site topographic surveying and mapping notes.
  - Appendix B contains the Geophysical Survey Technical Report.
  - Appendix C contains the Soil Gas Technical Report.
  - Appendix D contains lithologic boring logs from the Phase I drilling program.
  - Appendix E contains the database printout for the soil analytical data results.
  - Appendix F provides details of the quality assurance procedures implemented for this project including laboratory data validation reports.

1.4 INSTALLATION BACKGROUND INFORMATION

1.4.1 Description and History of Cannon Air Force Base

Cannon AFB is located in Curry County, New Mexico, approximately seven miles west of the City of Clovis. The base is situated on approximately 4,320 acres south of the intersection of U.S. Highway 84/60 and New Mexico Highway 277. The vicinity map of Cannon AFB is shown in Figure 1-1, and the site map of Cannon AFB is shown in Figure 1-2. Base facilities include the airfield area with operation, maintenance, and support facilities located primarily northwest of the airfield area. Base housing is located in the northwest quarter of the base and north of the base, west of New Mexico Highway 277. Additional ancillary base support facilities such as the wastewater lagoons, fire department training area, and munitions storage are located south and east of the airfield.

Additional information on the history of Air Force operations at Cannon AFB are presented in Section 2.0 of the Work Plan (W-C 1995).

1.4.2 Facility Characteristics

The following subsections discuss the geography, land use and demography, climatology, and biological resources for Cannon AFB.

1.4.2.1 Physical Geography

Cannon AFB is situated in the Southern High Plains Physiographic Province in the Llano Estacado subprovince, as shown on Figure 1-3 (Hawley et al. 1976). The Llano Estacado is a nearly flat plain sloping gently (10 to 15 feet per mile) to the east and southeast. Elevations in the eastern New Mexico portion of the Llano Estacado exceed 4,000 feet above mean sea level (msl). In the vicinity of Cannon AFB, elevations range from 4,250 feet to 4,350 feet above msl.

The most prominent geomorphic features in the vicinity of Cannon AFB are blowouts and broad, widely spaced valleys. Less common landforms are relict sand dunes located along the northern side of the Portales Valley south of the base. Relict dunes are not found on or near Cannon AFB.

Blowouts are broad shallow depressions which form as the result of soil erosion by wind. Blowouts commonly collect surface runoff from small to moderate sized drainage areas. During periods of rainfall, runoff collects in blowouts to form ephemeral playa lakes. Playas have no external surface drainage. Water is lost by infiltration to the soil and evaporation; without recharge, playa lakes persist for only a few days or weeks. Three playas are located within the base, and several more are found to the north and east of the base. Stream valleys tend to be fairly broad and widely spaced.

Streams are ephemeral and drainages are poorly developed. No streams exist on or near Cannon AFB. Running Water Draw and Frio Draw, located about 10 and 20 miles, respectively, north of Cannon AFB, are the nearest streams. These are second-order streams.

Both streams are very straight, flow southeast, and have rectilinear drainage patterns with short laterals.

1.4.2.2 Land Use Near Cannon AFB and Demography

This section provides a broad overview of site-wide land use and demographics, including the general area surrounding Cannon AFB. A more specific description of the demographics and land use at Landfill No. 5 is given in later sections of this RFI report.

Cannon AFB is located in southern Curry County, approximately seven miles west of the City of Clovis, New Mexico, which is the county seat. Bureau of Census data for 1990 reports the population of Curry County and the City of Clovis as 44,020 and 32,767 respectively. In 1991, Cannon AFB had a resident population of approximately 4,650, including military personnel and their dependents.

Currently, 1,841 housing units are controlled by Cannon AFB. Unaccompanied enlisted personnel reside in 830 dormitory units on-base. Military families live in 1,011 units, 250 of which are located off-base. Typically, military family housing (MFH) is maintained at 95 percent occupancy, while 5 percent are undergoing repairs and renovations.

Major industries by employment in Curry County include the retail trade, government, and services. Cannon AFB is the largest single employer within the county. The total work force on Cannon AFB is approximately 5,940 positions, which includes approximately 5,040 military and 900 civil service personnel.

Medical services are provided for Cannon AFB personnel and their dependents by two general hospitals in the surrounding communities and by the base hospital. Education of student dependents is provided by the Clovis Municipal School District. A total of 1,735 dependents of Cannon AFB personnel enrolled in Clovis schools during the 1989-1990 school year (USAF 1990).

Land use within Curry County is primarily agricultural. The county has a total land area of 897,000 acres with 837,200 acres designated as farmland; 133,700 acres of this are considered

prime farmland (USAF 1990). Lands surrounding Cannon AFB are classified as irrigated farmland of statewide importance. Principal crops include corn, grain, sorghum, wheat, barley, oats, alfalfa, cotton, and various vegetables. Cattle ranching occurs throughout the county.

The City of Clovis is the commercial center for eastern New Mexico and western Texas and is one of the primary growth centers in a 17-county area. The Clovis planning area boundary extends for a five-mile area around the city. Currently, no land use or zoning controls restrict the type and amount of construction in the proximity of Cannon AFB.

Within Cannon AFB there are several land uses occurring, including residential, commercial (businesses, offices, commissary, etc.), industrial (facilities associated with base operations), recreational, and vacant land. The USAF has also designated Compatible Use Zones (CUZs) around Cannon AFB. The CUZs provide recommendations for compatible uses in areas subject to noise and accident hazards. The local communities or county governments are responsible for adopting appropriate land use controls to prevent incompatible development. The county has not passed zoning ordinances controlling development around Cannon AFB. Incompatible land use (in regard to the Air Force's CUZs) has occurred to the northeast of the base and includes both commercial and residential development.

1.4.2.3 Climatology

The climate of east-central New Mexico is classified as tropical semi-arid. Average monthly temperatures range from a January low of 39°F to a July high of 78°F. Extreme daily temperatures range from -11°F to 106°F. Average monthly precipitation ranges from 0.4 inches in winter to 2.7 inches in July. The maximum recorded 24-hour rainfall is 4.7 inches, which occurred in August 1985 (Hale 1992). Rainfall occurs on eight or more days per month during the summer precipitation maximum. Mean annual precipitation is approximately 15 inches. The mean annual lake evaporation is 69 inches/year. Prevailing winds are from the west at an average of 8 miles per hour (mph).

The atmosphere around the area of Cannon AFB is generally well mixed. The seasonal and annual average mixing heights can vary from 400 meters in the morning to 4,000 meters in the afternoon. The afternoon mixing heights are typically greater during the spring and fall

seasons. The morning mixing heights are usually low, due to nighttime heat loss from the ground, producing surface-based temperature inversions. After sunrise, these inversions generally break up, and solar heating of the earth's surface causes vertical mixing in the atmosphere (USAF 1990).

Dust is frequently entrained into the atmosphere in this region of the country because of gusty winds and the semiarid climate. The Texas Panhandle-eastern New Mexico area is considered the worst area in the United States for windblown dust. Occasionally, this windblown dust is of sufficient quantity to restrict visibility. Most of the seasonal dust storms occur in March and April, when the wind speeds are typically high.

1.4.2.4 Biological Resources

Land adjacent to Cannon AFB is primarily used for agriculture, and little natural vegetation remains in the area. The wildlife species that are common to agricultural areas throughout the region include bobwhite quail and pheasant. The few playa lakes in the area are used by upland game for cover, by waterfowl for resting and feeding, and by wildlife in general for drinking. Nearby riverbeds also provide water sources during rainy seasons. During periods of low rainfall, the riverbeds are dry.

Plant Resources. The climate of the Base area is considered semiarid. The thin layer of topsoil in the vicinity of Cannon AFB is sandy loam, which is highly susceptible to wind erosion. The undisturbed natural vegetation is mostly shortgrass prairie, including blue grama grassland and mixed grama grassland vegetation types, which have moderately fast recovery rates.

Much of the study area has been previously cleared for agricultural crops. The predominant land use of the region is rangeland, primarily for cattle grazing. In general, moderately grazed rangeland areas of the types occurring in the project area are highly productive in terms of both forage quality and quantity. The rangeland in the vicinity may support up to 15 to 20 head of cattle per section, depending on the rainfall. Large trees do not uniformly exist in the vicinity of the range except where planted around buildings and other structures on the Cannon AFB.

Woodlands composed of large shrubs and small trees are confined to riparian areas and playa lakes in the vicinity.

The following plants are candidate species for the Federal List of Endangered and Threatened Wildlife and Plants, and are reportedly found within a 50-mile radius of Cannon AFB: chatterbox orchid (*Epipactus gigantea*), spiny aster (*Aster harridus*), Whittmans milkvetch (*Astragalus witmanii*), dune unicornplant (*Proboscidea sabulosa*), and the tall plains spurge (*Euphorbia strictior*). No federally-protected endangered plants are known to be present on Cannon AFB (Lee Wan and Associates 1990).

New Mexico's rare and endangered plant inventory (Sivinski and Lightfoot 1992) lists only tall plain's spurge as occurring within Curry County. Tall plain's spurge is a state rare and protected plant species (List 2), and a federal 3C species. State List 2 species are considered rare and sensitive plant species because of restricted distribution or low numerical density (Sivinski and Lightfoot 1992). They need not be endemic to New Mexico, but must be regionally endemic or rare throughout their range. Since they are rare, these species are sensitive to long-term or cumulative land use impacts and are vulnerable to biological or climatic events that could eventually threaten them with extinction or extirpation. List 2 species are monitored by the State of New Mexico to determine if they should ever be elevated to List 1 endangered status. List 2 species are not protected by state statute or policy. Federal 3C species are taxa which have proven to be more abundant or widespread than previously believed and/or which have no identifiable threats.

Wildlife Resources. The eastern New Mexico area contains many nongame wildlife species that are typical of the High Plains. Most of these species are distributed widely throughout the western United States. Species diversity is low in most habitats because of the low vegetation diversity. Most amphibian species are associated with riparian habitats and playa lakes. Reptiles are found in all terrestrial habitat types but are most abundant in scrub/grasslands. Nocturnal rodents are the most abundant members of the small mammal community.

Grasslands on the High Plains support a variety of seed-eating sparrows and other ground-dwelling birds, both as residents and migrants. Raptors (hawks and owls) are relatively abundant in all habitats in the region. Insectivorous and tree-nesting species are most abundant

in riparian areas. Shorebirds and waterbirds and migratory waterfowl in general use the rivers, playa lakes, and reservoirs of the region.

Two National Wildlife Refuges (NWRs) are located on the periphery of the Cannon AFB. The Grulla and Muleshoe NWRs are within 30 miles of Cannon AFB. These areas provide high-quality habitat for migratory and breeding waterfowl.

Big-game species in the area include mule deer, white-tailed deer, pronghorn, and barbary sheep. Pronghorn are the most abundant game animal in the area. Several species of upland game, such as quail, ring-necked pheasant, and turkey are common in the area. Reservoirs (Ute Lake, Conchas Lake, and Clayton Lake) and playa lakes are important waterfowl habitats in the region. Numerous species of native and introduced fish inhabit the rivers and perennial streams, and the reservoirs support recreational fishing of warm-water species such as walleye, crappie, channel catfish, largemouth bass, and bluegill.

As determined by the regional office of the U.S. Fish and Wildlife Service (USFWS), two federally-listed endangered animal species, the bald eagle (*Haliaeetus leucocephalus*) and the American peregrine falcon (*Falco peregrinus anatum*), are known to inhabit the area within a 50-mile radius of Cannon AFB. The New Mexico Department of Game and Fish (1995) lists the bald eagle as a State threatened species and the peregrine falcon as a State endangered species. Baird's sparrow (*Ammodramus bairdii*) is also listed by the New Mexico Department of Game and Fish as a State threatened species. The Mississippi kite (*Ictinia mississippiensis*), has been removed from the State endangered list. The Department of Game and Fish lists the black-footed ferret (*Mustela nigripes*), a federally endangered species, to be extirpated and no longer occurring in the state (New Mexico Department of Game and Fish 1995). Native wildlife listed by the State as no longer occurring in Curry County include the American bison (*Bos bison*) and the extinct Merriams' elk (*Cervus elaphus merriani*). State and Federal threatened, endangered, and candidate species are listed in Table 1-2.

Baird's sparrow is a migrant species. As a migrant species, Baird's sparrow would occur in mainly in autumn in the eastern plains and southern lowlands of Curry County. Migrants appear as early as the first week of August and move further south by November. The

species seems to have declined in abundance throughout its range in the Southwest due to loss of shrubby shortgrass habitat.

The bald eagle and peregrine falcon may occur infrequently in the vicinity of Cannon AFB. The bald eagle migrates and winters from the northern border of New Mexico to the Gila, lower Rio Grande, middle Pecos, and Canadian valleys. It is seen occasionally in summer and as a breeding bird, with nest reported in the extreme northern and western parts of the state. Winter and migrant populations appear to have increased with reservoir construction. The peregrine falcon is widely distributed but population numbers are low. The American subspecies breed statewide in New Mexico, but mainly west of the eastern plains.

TABLE 1-1

COMPARISON OF RCRA AND IRP - CERCLA PROCESS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

RCRA Process	IRP - CERCLA Process
RCRA Facility Assessment (RFA) (Agency-conducted)	Preliminary Assessment (PA)/Site Investigation (SI)
RCRA Facility Investigation (RFI)	Remedial Investigation (RI)
Corrective Measures Study (CMS)	Feasibility Study (FS)
Statement of Basis/Response to Comments	Record of Decision (ROD)
Corrective Measures Implementation (CMI)	Remedial Design/Remedial Action (RD/RA)

TABLE 1-2

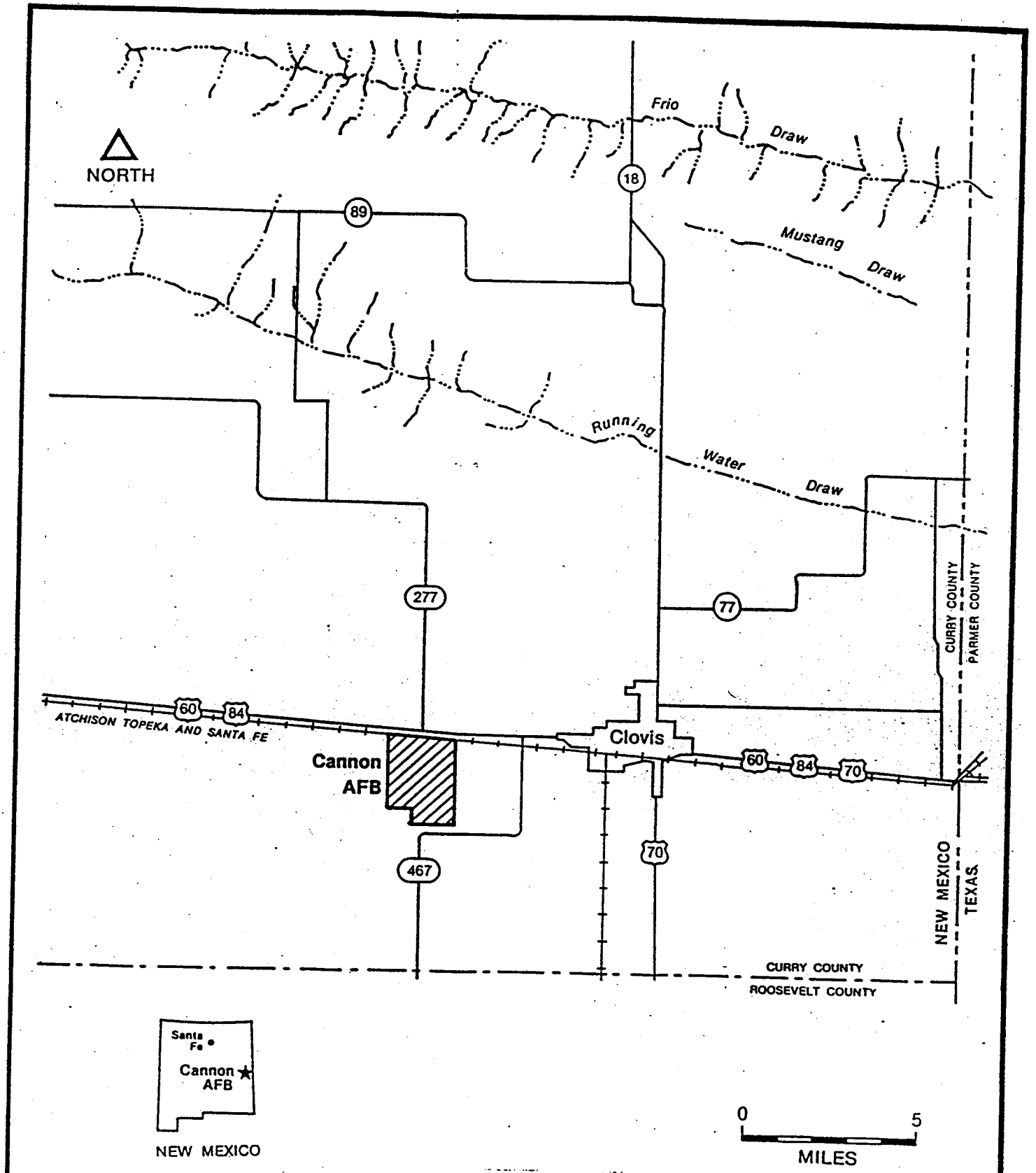
FEDERAL- AND STATE-PROTECTED ANIMALS POTENTIALLY OCCURRING IN THE VICINITY OF CANNON AFB (CURRY COUNTY)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	Common Name	Scientific Name	Federal Status	State Status
Birds				
	Baird's Sparrow	*Ammodramus bairdii*	candidate, C2	threatened
	bald eagle	*Haliaeetus leucocephalis*	threatened	threatened
	peregrine falcon	*Falco peregrinus*	endangered	endangered
	ferruginous hawk	*Buteo regalis*	candidate, C2	
	loggerhead shrike	*Lanius ludovicianus*	candidate, C2	
	western burrowing owl	*Athene cunicularia hypugea*	candidate, C2	
Mammals				
	black-footed ferret	*Mustela nigripes*	endangered	extirpated
	plains pocket gopher	*Geomys bursarius*	candidate, C2	
	swift fox	*Vulpes velox*	candidate, C1*	
Reptiles				
	Texas horned lizard	*Phrynosoma cornutum*	candidate, C2	

Federal Candidate, Category 1 -- Taxa for which the USFWS has on file sufficient information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened species. Proposed rules have not yet been issued because this action is precluded at present by other listing activity. *The swift fox is listed in the November 15, 1994 Federal Register as a C2 candidate species, although the New Mexico State Office of the USFWS lists it as a C1 candidate species.

Federal Candidate, Category 2 -- Taxa for which information now in the possession of the USFWS indicates that proposing to list as endangered or threatened is possibly appropriate, but for which persuasive data on biological vulnerability and threats are not currently available to support proposed rules. USFWS emphasizes that these taxa are not being proposed for listing, and there are no current plans for such proposals until additional supporting information becomes available. Further biological research and field study usually will be necessary to ascertain the status of taxa in this category. It is unlikely that many will be found not to warrant listing, either because they are not threatened or in greater danger of extinction than some taxa already found in Category 1.

Source: New Mexico Dept. of Game and Fish 1995.
USFWS 1995.



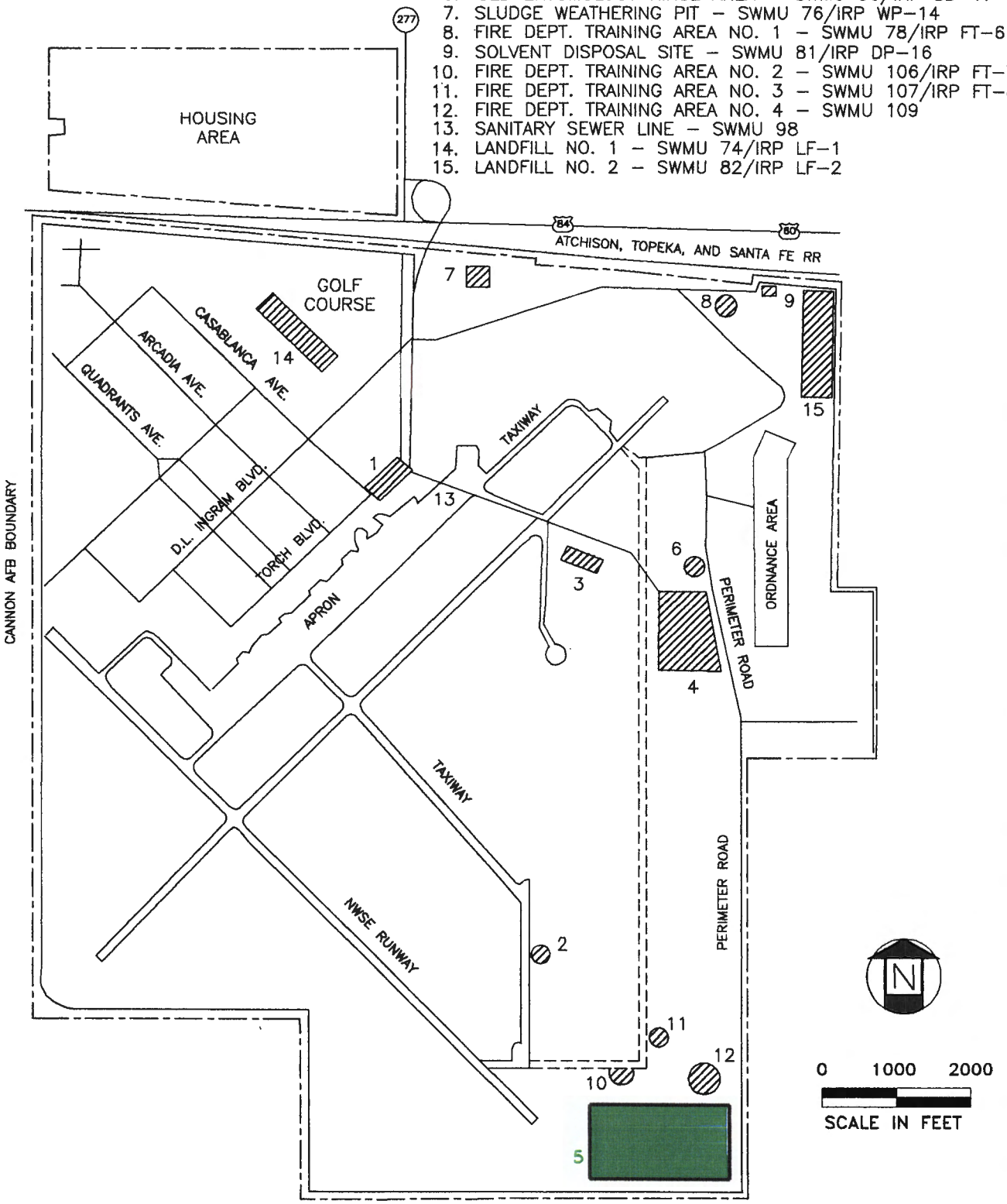
BASE MAP ADAPTED FROM FINAL REPORT, IRP PHASE II, (RADIAN 1986)

Job No. : C3M11M	VICINITY MAP CANNON AFB, NM
Prepared by : J.T.A.	
Date : 8/13/93	

FIG. 1-1

EXPLANATION

1. AGE DRAINAGE DITCH – SWMU 34/IRP SD-15
2. ENGINE TEST CELL AREA – SWMU 86-90/IRP SD-11
3. NE STORMWATER DRAINAGE AREA – SWMU 95/IRP SD-20
4. WASTEWATER LAGOONS – SWMU 101,102
5. LANDFILL NO. 5 – SWMU 113/IRP LF-5
6. OLD ENTOMOLOGY RINSE AREA – SWMU 96/IRP SD-17
7. SLUDGE WEATHERING PIT – SWMU 76/IRP WP-14
8. FIRE DEPT. TRAINING AREA NO. 1 – SWMU 78/IRP FT-6
9. SOLVENT DISPOSAL SITE – SWMU 81/IRP DP-16
10. FIRE DEPT. TRAINING AREA NO. 2 – SWMU 106/IRP FT-7
11. FIRE DEPT. TRAINING AREA NO. 3 – SWMU 107/IRP FT-8
12. FIRE DEPT. TRAINING AREA NO. 4 – SWMU 109
13. SANITARY SEWER LINE – SWMU 98
14. LANDFILL NO. 1 – SWMU 74/IRP LF-1
15. LANDFILL NO. 2 – SWMU 82/IRP LF-2

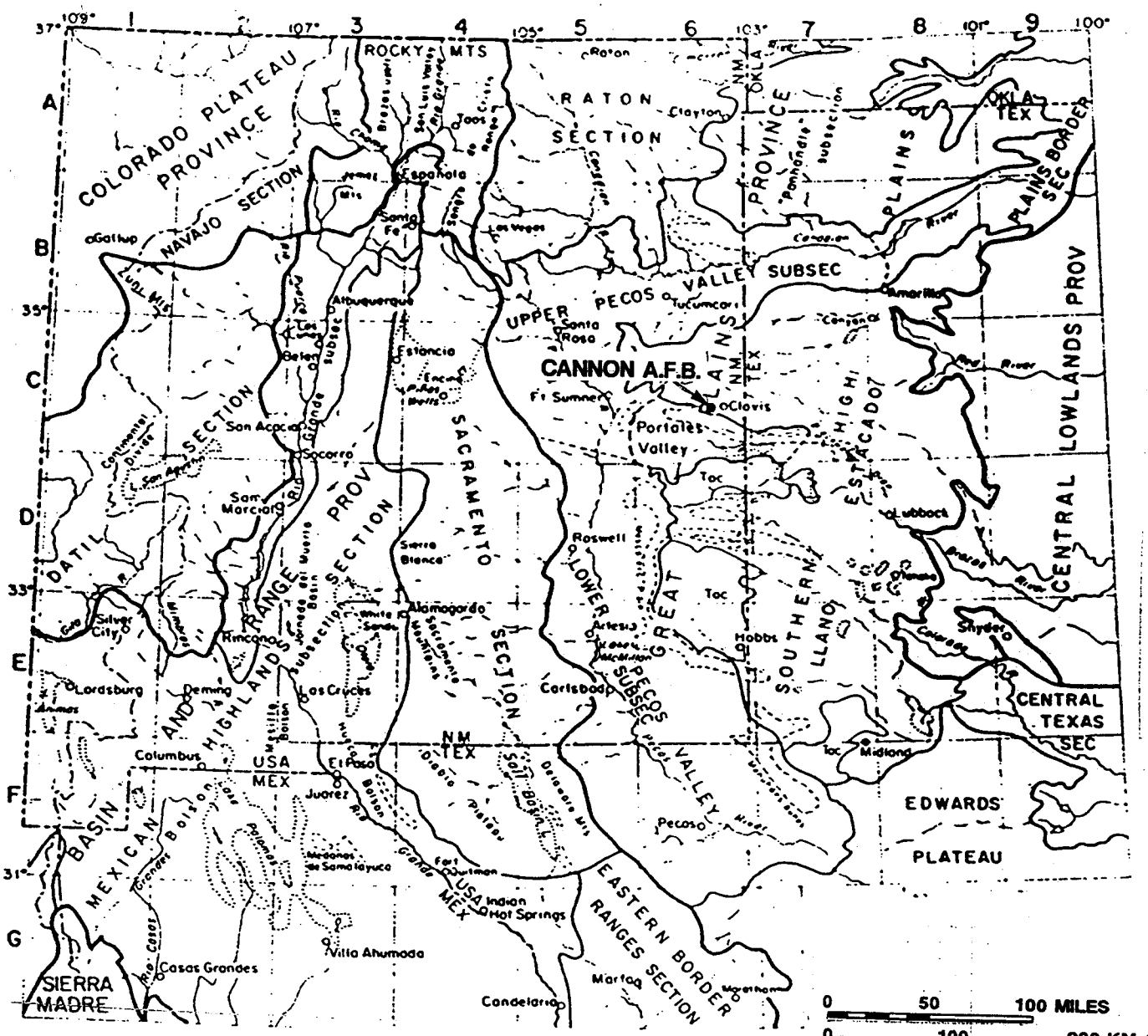


Job No. : C3M11M	IRP/SWMU SITE LOCATION MAP
Prepared by : D.A.K.	CANNON AFB, NEW MEXICO
Date : 8/22/93	

3M11FXX

FIG. 1-2

150271



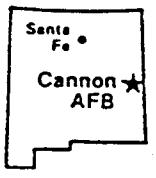
LEGEND

UPPER QUATERNARY EOLION SAND SHEETS WITH DUNE FIELDS

DEPRESSIONS OCUPIED BY UPPER PLEISTOCENE "FLUVIAL" LAKES

Toc — RELICT OGALLA CAPROCK SURFACE

SOURCE: QUATERNARY STRATIGRAPHY IN THE BASIN & RANGE AND GREAT PLAINS PROVINCES NEW MEXICO & WEST TEXAS; HAWLEY, BACKMAN, MANLEY.



NEW MEXICO

Job No. : C3M11M	GEOMORPHIC PROVINCE MAP
Prepared by : D.A.K.	CANNON AFB, NEW MEXICO
Date : 8/20/93	

FIG. 1-3

2.0
PHYSICAL CHARACTERISTICS

2.1 SWMU DESCRIPTION

2.1.1 Setting

Landfill No. 5 (SWMU No. 113/IRP No. LF-5) is a 70-acre, inactive landfill located in the southeastern area of Cannon AFB (Figure 1-2). Past trenching and disposal of waste material occurred over approximately 30 acres in the eastern portion of the landfill. This area is surrounded by a 4 foot high barbed wire fence and has two entrances that remain locked. The remaining 40 acres to the west appear to have received construction debris which was use to backfill natural depressions. The overall landfill site is sparsely vegetated with only a few trees, and the topography is relatively flat except in areas where trenching operations occurred (these areas have slight surface depressions) (Figure 2-1). The general flow of surface water runoff resulting from storms is toward the southeast or local drainage into surface depressions.

No structures (i.e., buildings) are located on the landfill premises; however, a closed RCRA regulated unit known as Cell No. 3 exists within the landfill boundary (Figure 2-1).

2.1.2 History of Use

Landfill No. 5 was active between 1968 and October 1984. Waste materials received at this landfill reportedly included domestic solid waste, waste oils, and solvents; paint, paint remover, and thinners; pesticide containers; and various empty cans and drums. From 1968 to about 1972, the mode of operation at this landfill was burn and bury in trenches. (CH2M Hill, 1983). After 1981, the standard operation was direct burial of the waste in trenches, and tree limbs and construction rubble were the only materials being disposed of at the landfill.

2.1.3 Previous Investigations Pertinent to Landfill No. 5

Prior to the Phase I RFI at Landfill No. 5, previous investigations at Landfill No. 5 had been conducted under both the USAF IRP program and Cannon AFB's RCRA permit requirements primarily to assess the environmental impact of the RCRA regulated unit, Cell No. 3 within the landfill premises. Cell No. 3, is a RCRA-regulated unit since hazardous waste was reportedly disposed of in this cell through 1981. Until late 1981, an estimated 5 to 10 drums per month of waste oils and solvents were received at the site. The drums ranged from partially to completely full. From the end of 1981 until the cell was permanently closed in 1983, the cell did not receive additional hazardous waste. Closure of the cell consisted of placing an impermeable clay cap over the cell. The cell is fenced for security within Landfill No. 5.

In 1982-83, CH_2M Hill conducted a records search in support of the USAF IRP program for Cannon AFB. This project included a detailed review of pertinent installation records, contact with government agencies, and a site visit. The purpose of this project was to identify and fully evaluate suspected problems associated with past hazardous material disposal sites, control the migration of hazardous contamination from such sites, and control hazards to health and welfare that may have resulted from these past operations. Results of this records search identified several sites including Landfill No. 5 and RCRA Cell No. 3 which warranted further investigation (CH_2M Hill, 1983).

In 1984, monitoring wells currently known as MW-A, MW-B, MW-C, and MW-D located downgradient and upgradient from Landfill No. 5 were installed by Radian Corporation for the USAF Occupational and Environmental Health Laboratory. Groundwater analytical results indicated that groundwater conditions upgradient and downgradient of Landfill No. 5 were very similar. None of the samples collected exceeded drinking water standards for any of the parameters tested. Trichlorofluoromethane was detected at a concentration of 2.1 μg/l in the upgradient well, however, trichlorofluoromethane was not detected in any of the four downgradient wells. No additional volatile aromatic or halocarbon compound was detected in any of the groundwater samples collected (Radian, 1986).

In January 1985, an investigation of Cell No. 3 was performed by Geoscience Consultants (1985). Soil was collected and analyzed from beneath Cell No. 3, however, no volatile organic compounds above the reporting limit of 0.01 micrograms per gram (μg/g) were detected.

A Preliminary Review and Visual Site Inspection of Cannon AFB was performed by A.T. Kearney, Inc. in 1987, to identify and evaluate solid waste management units and other areas of concern. The investigation identified 128 SWMUs, including Landfill No. 5 (Kearney, 1987).

In 1988, two groundwater monitoring wells, MW-I and MW-J were installed by the Tulsa District of the USACE. These wells are located along the southeast boundary of Landfill No. 5.

In 1991, Woodward-Clyde conduced a Remedial Investigation at 18 SWMUs at Cannon AFB, including investigations at Landfill No. 5. During the investigation at Landfill No. 5, groundwater samples were collected from one upgradient well (MW-A) and from four downgradient wells (MW-B, MW-C, MW-D, and MW-I). Groundwater samples were collected and analyzed for Appendix IX constituents listed in 40 CFR 264.

Based on the December 1991 sample event no analytes other than metals were detected above the contract required quantitation limit (CRQL). Metals analysis revealed the presence of barium and vanadium in all five groundwater samples. Both metals had concentrations below their maximum contaminant levels (MCLs) (for barium, 1.0 mg/L; for vanadium, no MCL is established). The concentration of barium was approximately 0.029 mg/L. The concentration of vanadium ranged from 0.023 mg/L to 0.036 mg/L. Lead was detected in one groundwater sample, 113B, at a concentration of 0.016 mg/L, well below its MCL of 0.05 mg/L. Evaluation of the data concluded that the quality of groundwater has not been affected by past landfill activities (W-C 1992).

In 1992, two additional monitoring wells (MW-L and MW-M) were installed along the eastern edge of Landfill No. 5 by the U.S. Geological Survey to meet RCRA release detection monitoring requirements and provide detection of potential contaminant release from Landfill No. 5.

2.1.4 Land Use and Demography

Very few persons enter the Landfill No. 5 area each year since closure of the landfill in 1983. Personnel that now enter the landfill area are primarily persons involved with periodic environmental characterization work at the site (USAF, USACE, environmental consultants, and drilling companies). One person conducts groundwater sampling of the wells located outside the boundary of Landfill No. 5 for about 5 to 10 hours on a semi-annual basis but does not enter the landfill premises (W-C 1992).

2.2 REGIONAL SOILS

Soils in the vicinity of Cannon AFB are classified as silty sand (SM) to clayey sand (SC) under the USCS, and as aridisols (calciorthids) under the United States Department of Agriculture - Soil Conservation Service Comprehensive Soil Classification System (USDA-SCS). The following summary is based on the Curry County Soil Survey (USDA 1958). Figure 2-2 depicts the various soil types mapped at Cannon AFB. Soil characteristics are briefly described in the following paragraphs.

The most common soil type on Cannon AFB is the Amarillo fine sandy loam, 0 to 2 percent slope phase (map symbol Ab). This soil consists of a thin sandy A horizon, well defined clayey B_{1-3} horizons, with a calcic B_3 horizon at depths below 40 inches. The calcic B_3 horizon lies on a calcic C horizon or on caliche. The surface soil is brown (7.5 YR 5/5, dry) and subsurface soils are reddish-brown (5 YR 4/4, dry) to yellowish-red (15 YR 5/6, dry). The calcic C horizon underlying the Amarillo Fine Sandy loam is white. The Amarillo fine sandy loam soil type is present on all relatively flat surfaces at the base but is also found on slopes associated with playas (map symbol Ac). A small area of Amarillo loamy fine sandy 0 to 2 percent slope phase (map symbol Ag) is mapped in the southeast corner of the base.

Clovis fine sandy loams, 0-2 percent slope phase (map symbol Cb) and 2-5 percent slope phase (map symbol Cc), are similar to Amarillo fine sandy loams. Clovis soils are reddish-brown on the surface and in the subsurface, with a white Calcic C horizon. In the Clovis soils, the depth to the calcic C horizon ranges from 28 to 56 inches. The depth to caliche exceeds 56 inches. Clovis and Amarillo fine sandy loams occur in close association.

In a few limited areas, particularly along the steeper slopes around playas, Mausker fine sandy loam, 0 to 2 percent slope phase (map symbol Ma), and 2 to 5 percent phase (map symbol Mb) are found. Mausker fine sandy loams have no B horizons and are very calcareous. Mausker fine sandy loam soils are brown (10 YR 5/3, dry) to light brown (7.15 YR 6/4, dry) at the surface with a pink to reddish-yellow (7.5 YR 7/5, dry) calcic C horizon. Associated with the Mausker fine sandy loam soils around the base Playa Lake are Potter fine sandy loam soils, 0 to 5 percent slope phase (map symbol Pa). This soil typically has a thin A horizon, is grayish brown (10 YR 5/2, dry), with no B horizon; it is similar to Mausker soils. Potter soils are shallow and strongly calcareous, and overlie hard consolidated caliche. The calcic C horizon is within two feet of the surface.

The A and B horizons of Amarillo and Clovis fine sandy loams are rapidly to moderately permeable. Mausker fine sandy loam A and Ac horizons are rapidly permeable. Permeabilities in calcic B and C horizons are moderate (USDA 1958).

2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

Regional Geology

The near-surface stratigraphic units of interest at Cannon AFB are the Late Miocene-Late Pliocene age Ogallala Formation and the Early Triassic Dockum Group shown in Figures 2-3 and 2-4.

The Dockum Group consists of three formations. The stratigraphically lowest unit is the Santa Rosa Sandstone. Overlying the Santa Rosa Sandstone are the Chinle and Redonda Formations. The Chinle and Redonda Formations are composed mainly of red shales with lesser interbedded sands and are known locally as "redbeds." The top of the Dockum Group is marked by an erosional unconformity having relief of up to several hundred feet (Lee Wan and Associates 1990).

The Ogallala Formation overlies the Dockum Group redbeds. The Ogallala Formation extends from eastern New Mexico and Colorado into Texas, Oklahoma, Kansas, Nebraska, and South

Dakota. Drillers' logs from Cannon AFB indicate that the Ogallala Formation varies from 360 to 415 feet in thickness. The incised upper surface of Triassic redbeds strongly influences the Ogallala thickness. Stream valleys in the post-Triassic unconformity are deep and trend dominantly east-west. Thus, Ogallala thickness may thus vary significantly over short north-south distances.

The Ogallala is erosionally truncated to the south along the abandoned Portales Valley, to the west along the Pecos River Valley, and to the north in a series of ephemeral stream valleys. The Ogallala Formation extends more than 125 miles to the east before terminating as an escarpment in Briscoe County, Texas. Springs and seeps are common along the erosional margins of the Ogallala.

The Ogallala dips gently and monoclinally to the southeast in the vicinity of Cannon AFB. As reported in Lee Wan and Associates (1990), data suggest that some Quaternary warping may have occurred, however most of the structures are well to the northwest and southwest of Cannon AFB. No faults or buried structural lineaments are known to exist in the vicinity of Cannon AFB.

The Ogallala Formation is composed of unconsolidated poorly sorted gravel, sand, silts, and clays. The base of the Ogallala is generally marked by a gravel, cobble, and boulder deposits. This basal member contains sediments derived from igneous and sedimentary rocks transported from the mountains to the west. The Ogallala Formation was laid down by stream and overbank deposits formed within coalescing alluvial fans. These fans form a broad pediment along the eastern flank of the Rocky Mountains. As is typical of alluvial deposits, Ogallala internal stratigraphy varies vertically and horizontally over short distances.

Except where strongly cemented by calcium carbonate (caliche), the sediments of the Ogallala are loose and friable. Authigenic and allogenic clays are found as a trace to abundant matrix mineral (Lee Wan and Associates 1990). Five zones have been identified within the Ogallala of east central New Mexico on the basis of clay minerals. Smectites (montmorillonites) and attapulgite (with sepeolite) are the dominant clays throughout the Ogallala. Illite is a lesser, but persistent clay, as is kaolinite. Smectite is a swelling clay, causing deep cracks to form in dry surface soils. Smectite in particular and, to a lesser extent, attapulgite and illite, are clays with

moderate to high cation exchange capacities (CEC). The formation as a whole should therefore have a relatively high CEC, which should inhibit the migration of charged contaminants, and especially ionic forms of metals (Lee Wan and Associates 1990).

Caliche is a major feature of the Ogallala Formation, occurring as nearly continuous to discontinuous layers throughout. A generalized geologic section at Cannon AFB is shown in Figure 2-4. Caliche is hard, white to pale tan on fresh surfaces, weathering to gray, and has a chalky appearance. Caliche forms as calcium carbonate leached from overlying sediments, and precipitates in the pore space of the host sediments. Precipitation is caused by the evaporation of downward percolating water. The caliche may thus mark the position of ancient vadose zones. Radiocarbon dates for the upper "climax" caliche range from approximately 27,000 years Before Present (B.P.) to approximately 42,000 years B.P. (Lee Wan and Associates 1990).

Caliche is relatively soluble in acidic water (pH<7) or in waters containing dissolved carbon dioxide. The top surface of the upper "climax" caliche in fresh outcrop shows solution etching.

The Ogallala has numerous continuous to discontinuous caliche layers throughout its thickness. The upper "climax" caliche is pisolitic (Lee Wan and Associates 1990). The pisolites are thought to have formed as the caliche was repeatedly chemically-weathered and brecciated during Pleistocene pluvials and later recemented during drier intervals. This upper caliche outcrops around playas and the bounding escarpments of the Ogallala and is locally termed "caprock." The "climax" caliche is typically 3 to 5 feet thick. Caliches which occur lower in the Ogallala are platy and harder. Caliche is likely thin or absent below playas.

Regional Hydrogeology

The lower portion of the Ogallala Formation is the primary regional aquifer for both potable and irrigation water. No deeper aquifers are used in the vicinity of Cannon AFB. The Ogallala aquifer is part of the High Plains Aquifer which extends continuously from Wyoming and South Dakota into New Mexico and Texas. In east central New Mexico, the Ogallala aquifer rests on Dockum Group redbeds, which serve as the basal confining layer. The Ogallala is a water table, or unconfined aquifer. The Ogallala aquifer has a southeasterly regional gradient of

about 10 to 15 feet/mile (Weeks and Gutentag 1981). Well yields vary from less than one gallon per minute (gpm) in thin silts and sands, and up to 1,600 gpm in thick sands and gravels (Lee Wan and Associates 1990). Water quality is generally good with dissolved solids ranging from 250 to 500 milligrams per liter (mg/L) (Gutentag et al. 1984) and fluorides ranging from 2.2 to 2.7 mg/L (William Matotan and Associates Inc. 1985).

At Cannon AFB, the Ogallala aquifer has an average saturated thickness of 120 feet based on mid-1960's data. Saturated thickness ranges from 93 to 143 feet and is influenced by the configuration of the erosional unconformity surface marking the top of the Dockum Group. The local groundwater gradient is southeasterly at 7 to 15 feet/mile (USAF 1990). Figure 2-5 shows water table elevation contours for 1982. Flow within the saturated zone may be influenced by the configuration of the top of the Dockum Group. Yields in tests of Cannon AFB water wells have ranged from 205 to 1,150 gpm. Specific capacities range from 11.4 to 27.9 gallons per foot (gal/ft) (Lee Wan and Associates 1990).

Very rough estimates of hydraulic conductivity were made from well pump tests conducted by Cannon AFB in water wells 5, 8 and 9 (Figure 2-6) using the Theis equation. The data used in these calculations were obtained to evaluate pump rates, efficiency, and well yield and were not intended for use in calculating aquifer properties. The results of these calculations should, therefore, be considered as estimates only.

Hydraulic conductivity values for water wells 5 and 9 were approximately 2.0×10^{-3} centimeters per second (cm/sec). Calculations for water well 8 result in a hydraulic conductivity of 2.0×10^{-2} cm/sec. These estimates appear to be low when compared to published hydraulic conductivity data for sands and gravels (Freeze and Cherry 1979). As reported in Kearney (1987), a groundwater flow velocity of about 150 feet per year has been estimated. This calculation suggests a hydraulic conductivity of approximately 1.0×10^{-1} cm/sec.

Hydraulic information specific to Landfill No. 5 (SWMU No. 113/IRP No. LF-5) was obtained during the 18 SWMUs RI conducted by W-C in 1991 (W-C 1992). The hydraulic gradient beneath Landfill No. 5 was approximately 0.0025 feet per foot based on water level elevations measured on November 8, 1991. Using the range of hydraulic conductivity values previously

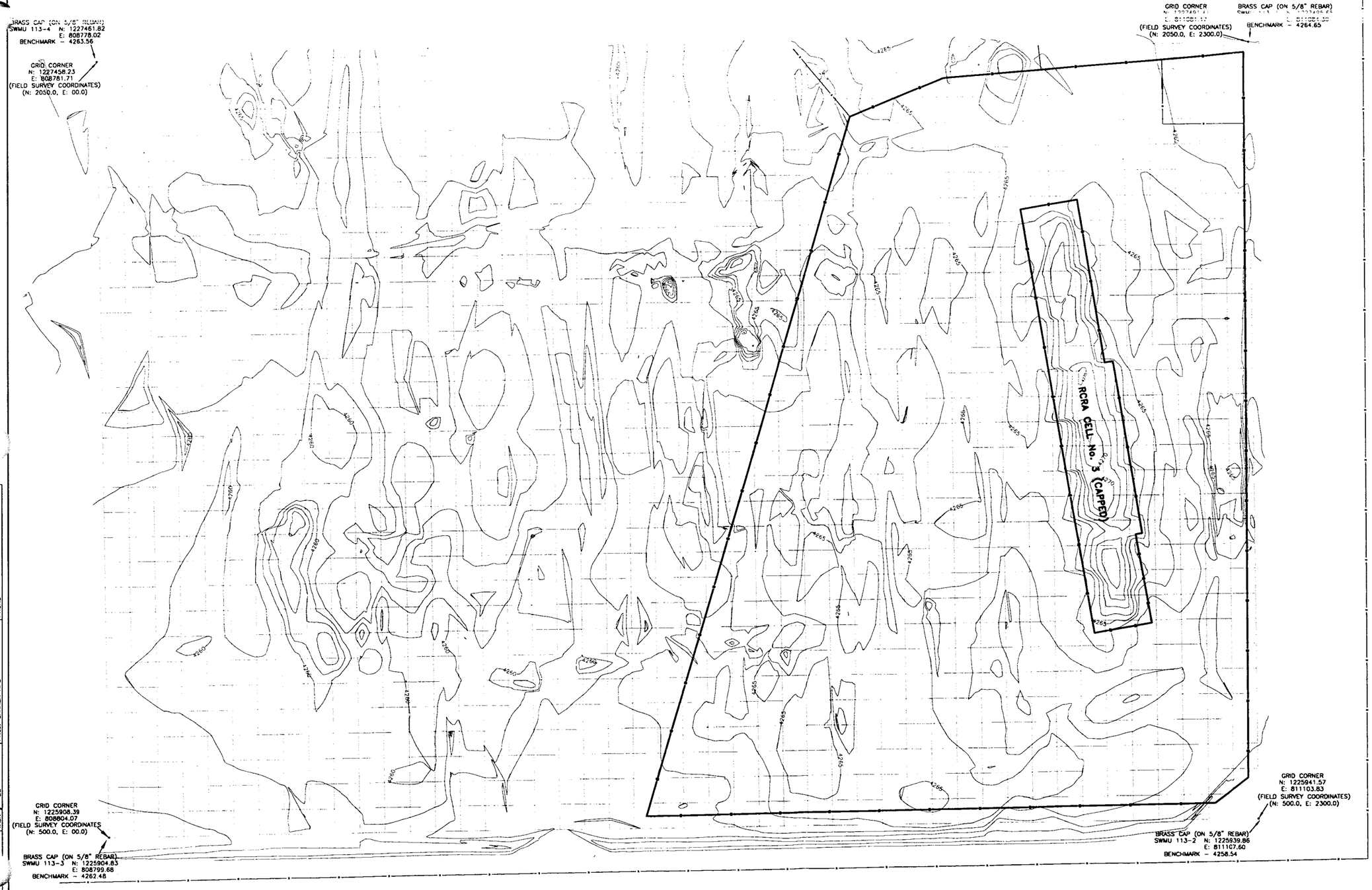
reported and an effective porosity of 28 percent (i.e., based on "clean sand" estimates as stated in Freeze & Cherry 1979), the groundwater velocity is estimated to range from 0.069 feet/day to 0.134 feet/day.

The presence of interstitial clays may account for both the variability and low values of hydraulic conductivities. Boring logs from Cannon AFB IRP projects and published reports (Lee Wan and Associates 1990) indicated that interstitial and interstratified clays are abundant in the Ogallala Formation.

Recharge to the Ogallala is primarily through precipitation. Kearney (1987) indicated that the recharge rate may be as much as 1.0 inch per year. Due to the high evapotranspiration rate and low precipitation, recharge occurs only during heavy rainfall events in which the infiltration capacity of the soil is exceeded and runoff occurs, or during cool months when precipitation exceeds evapotranspiration. Excess runoff flows to playas, and the presence of water in playas may allow deep percolation to the aquifer. It is possible that the caliche may be thin or absent directly below the playas.

Discharge from the Ogallala Formation occurs through well pumping and springs along the eroded margins. Spring discharge does not occur on or near Cannon AFB. Domestic and irrigation water wells are common on and around the base. However, the rate of discharge exceeds local recharge. Water levels in the Ogallala Formation have declined steadily from the 1930s to the present. From the 1930s to 1980, a decline of 50 to 100 feet has been observed in the area around Clovis, New Mexico. Luckey et al. (1981) states, "the largest area of water level decline exceeding 100 feet occurs south of the Canadian River extending from Curry County, New Mexico to Crosby County, Texas."

The Ogallala Formation will continue to be used as the primary source of potable and irrigation water for eastern New Mexico. The New Mexico State Engineer designated Curry County as a Water Basin in 1989. This designation allows for regulation of water rights, usage, and well drilling.



LEGEND

FENCE

CONTOUR INTERVAL = 1 FOOT

SEND TO	
PHONE	
LOC.	
PROJ.	CANNON AFB
PROJ. / TASK #	C3M11M / 2B
FILE / SCALE	3M11FG87 / 1"=100'
OPPER	
DATE	

DRAWING NUMBER	REFERENCE DRAWING TITLE	REV	DESCRIPTION OF REVISION	BY	DATE

Woodward-Clyde Consultants

Engineering & sciences applied to the earth & its environment

WARNING

0 ● 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	GLW/JTA
DRAWN	PFL
CHECKED	
PEER REVIEWED	
PROJECT MANAGER	
DATE	

CANNON AFB — NEW MEXICO

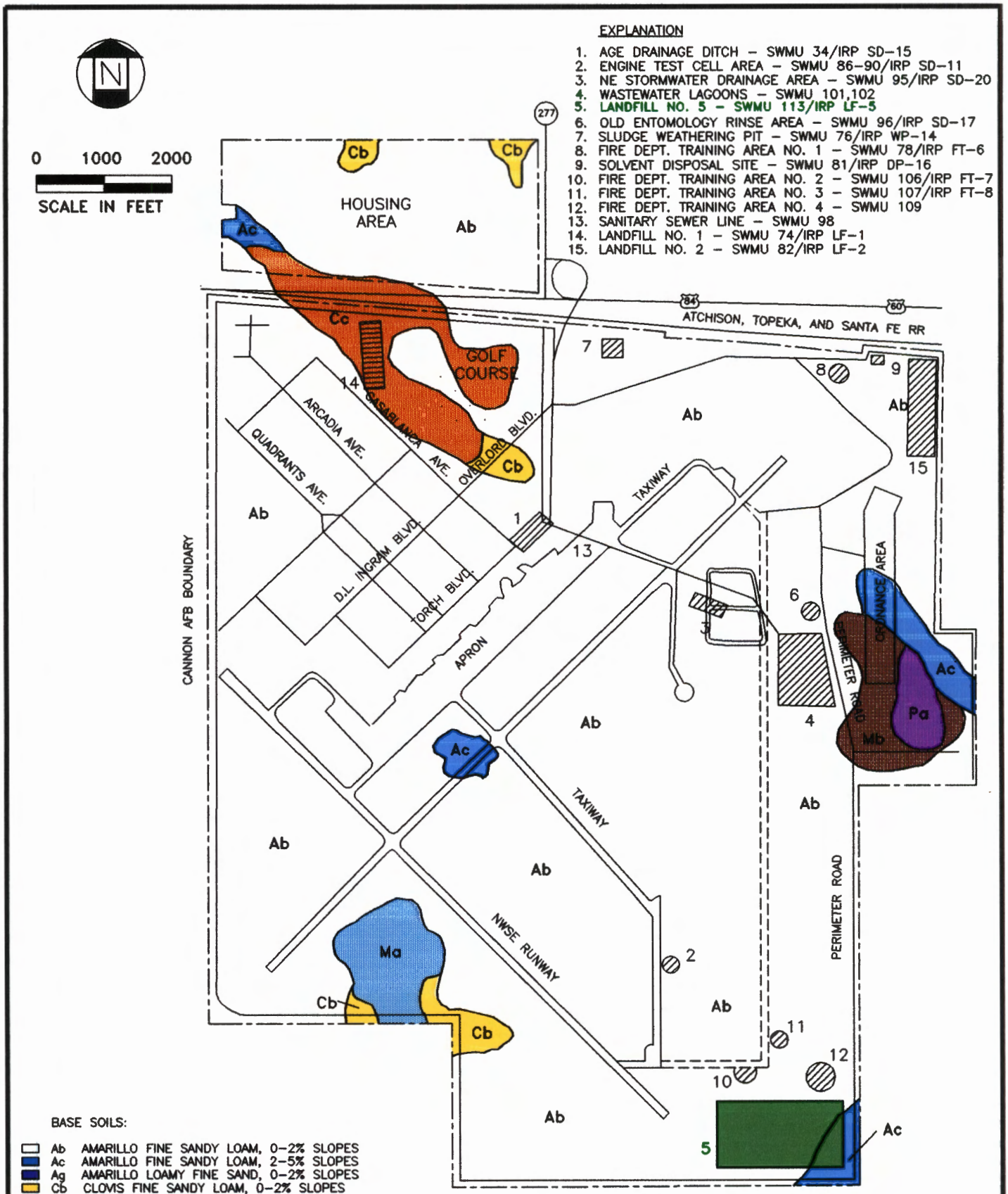
TOPOGRAPHIC MAP
LANDFILL NO. 5

REVISION △

PROJECT C3M11M

DRAWING **2-1**

SHEET OF



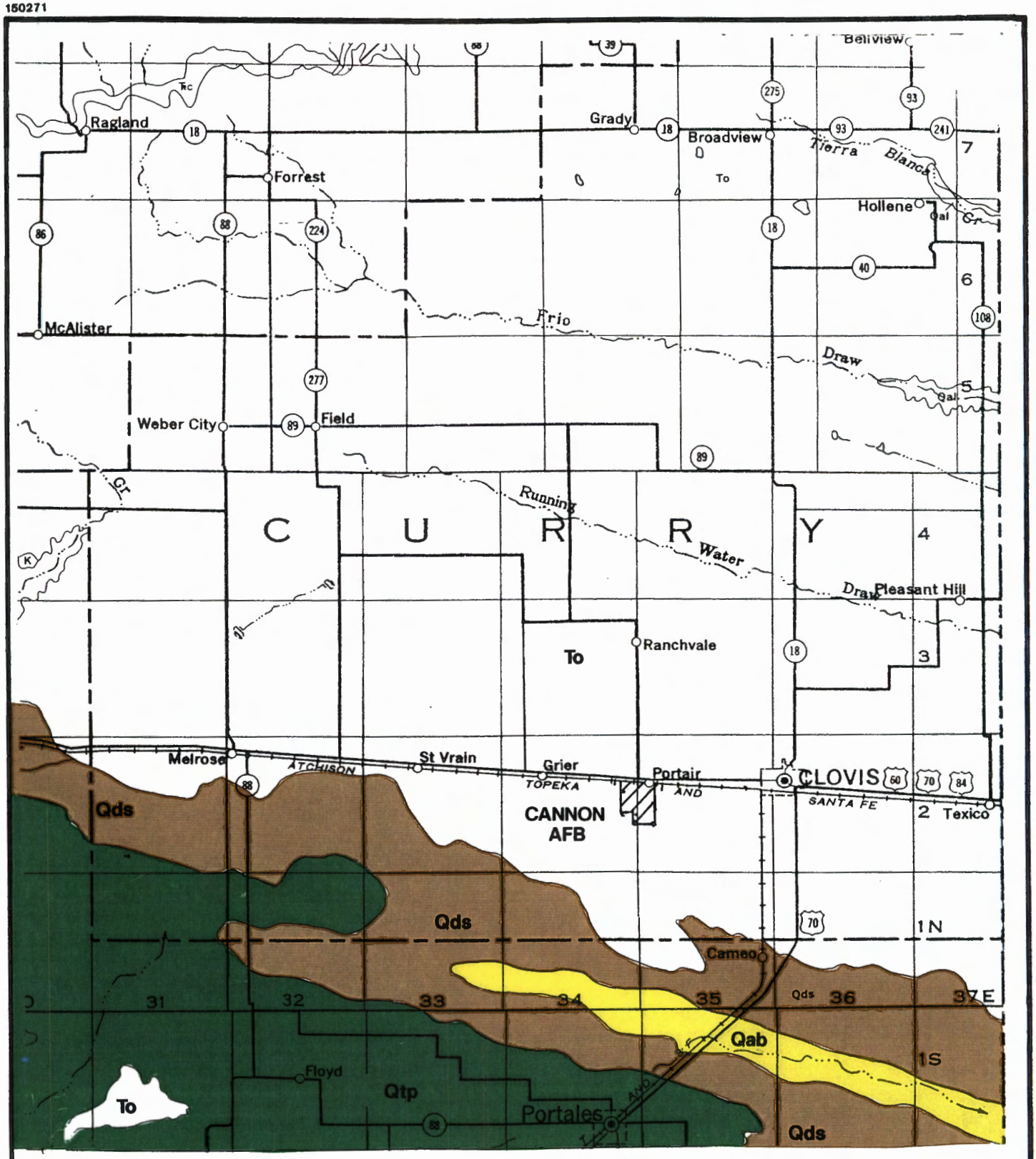
SOURCE: USDA-S.C.S., SOIL SURVEY OF CURRY COUNTY N.M., 1958

Job No. : 9C114LL1	DISTRIBUTION OF SOILS BY TYPE
Prepared by : K.A.P.	CANNON AFB, NEW MEXICO
Date : 5/22/96	

3M11F28

FIG. 2-2

150271



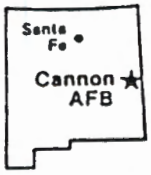
LEGEND

QTp	GRAVEL, SAND & CALICHE
Qds	DUNE SAND
Qab	ALLUVIUM
To	OGALLALA FORMATION

N

0 2.5 5 10
SCALE IN MILES

SOURCE: U.S.G.S. GEOLOGIC MAP OF NORTHERN N.M., 1962



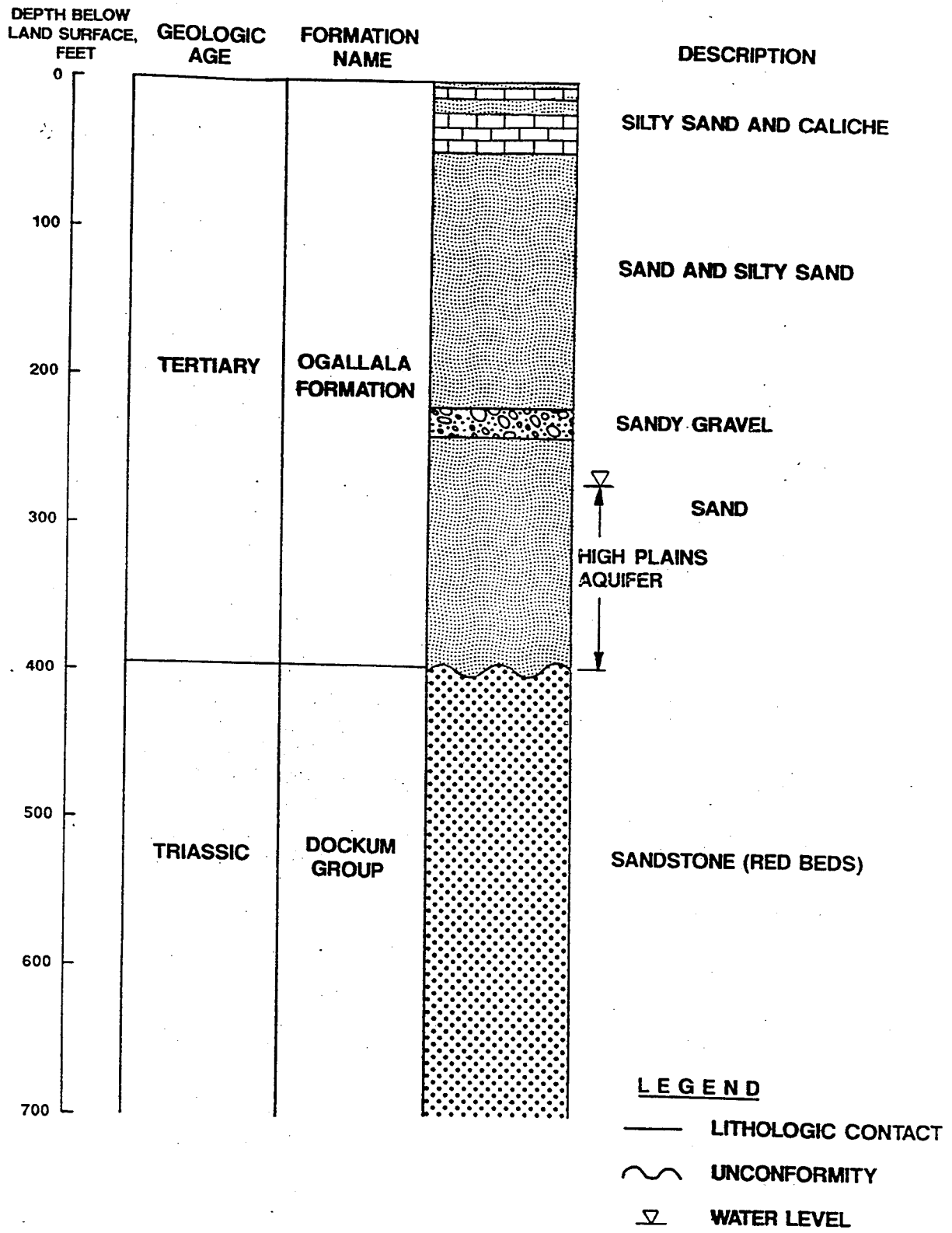
NEW MEXICO

Job No. :	9C114LL1
Prepared by :	K.A.P.
Date :	5/22/96

GENERALIZED GEOLOGIC MAP
CANNON AFB, NEW MEXICO

FIG. 2-3

150271



MODIFIED FROM GUTENTAG ET.AL. 1984

Job No. : C3MFHM	GENERALIZED GEOLOGIC COLUMN OF CANNON AFB, NEW MEXICO
Prepared by: D.A.K.	
Date: 8/20/93	

FIG. 2-4

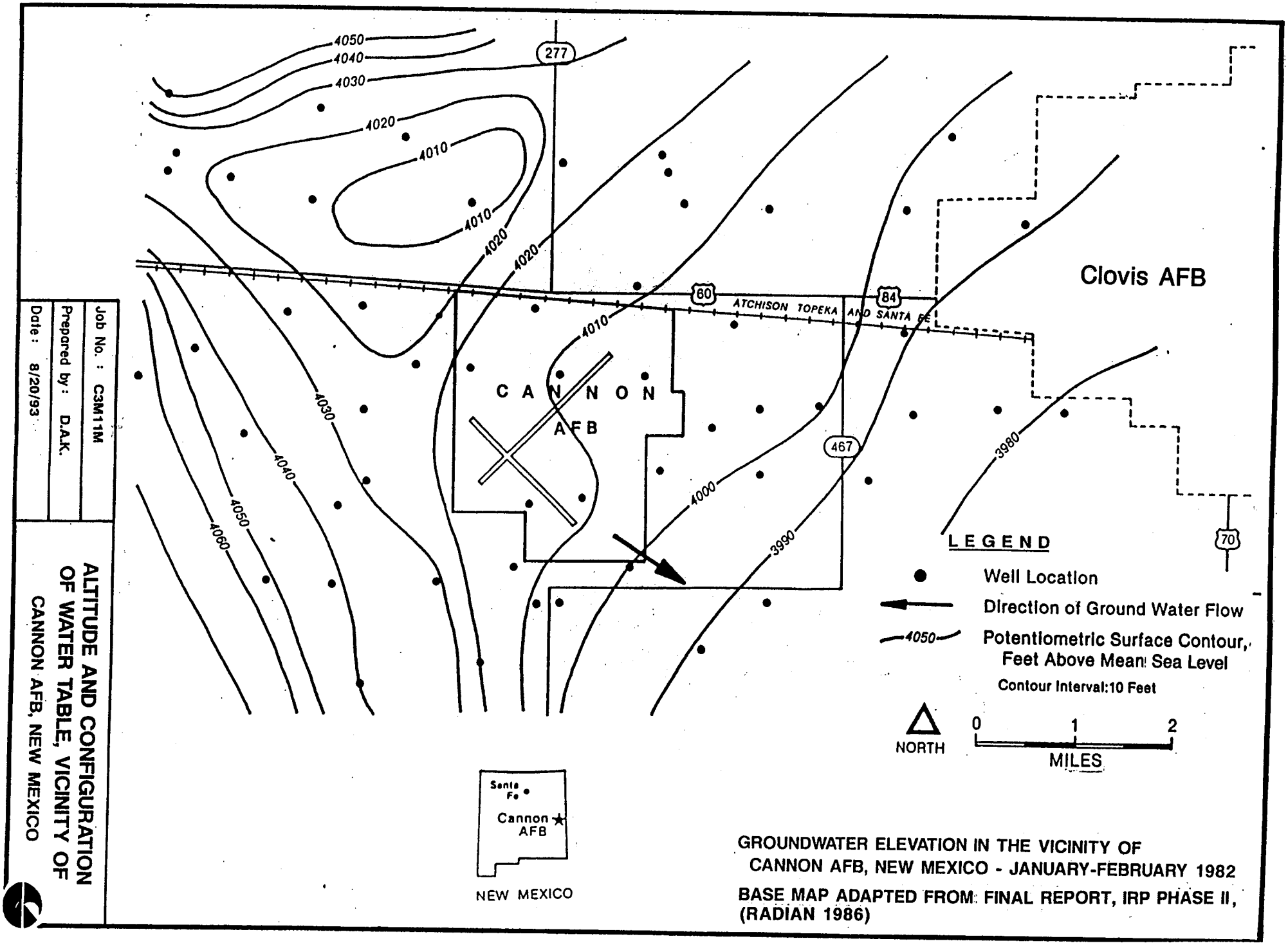
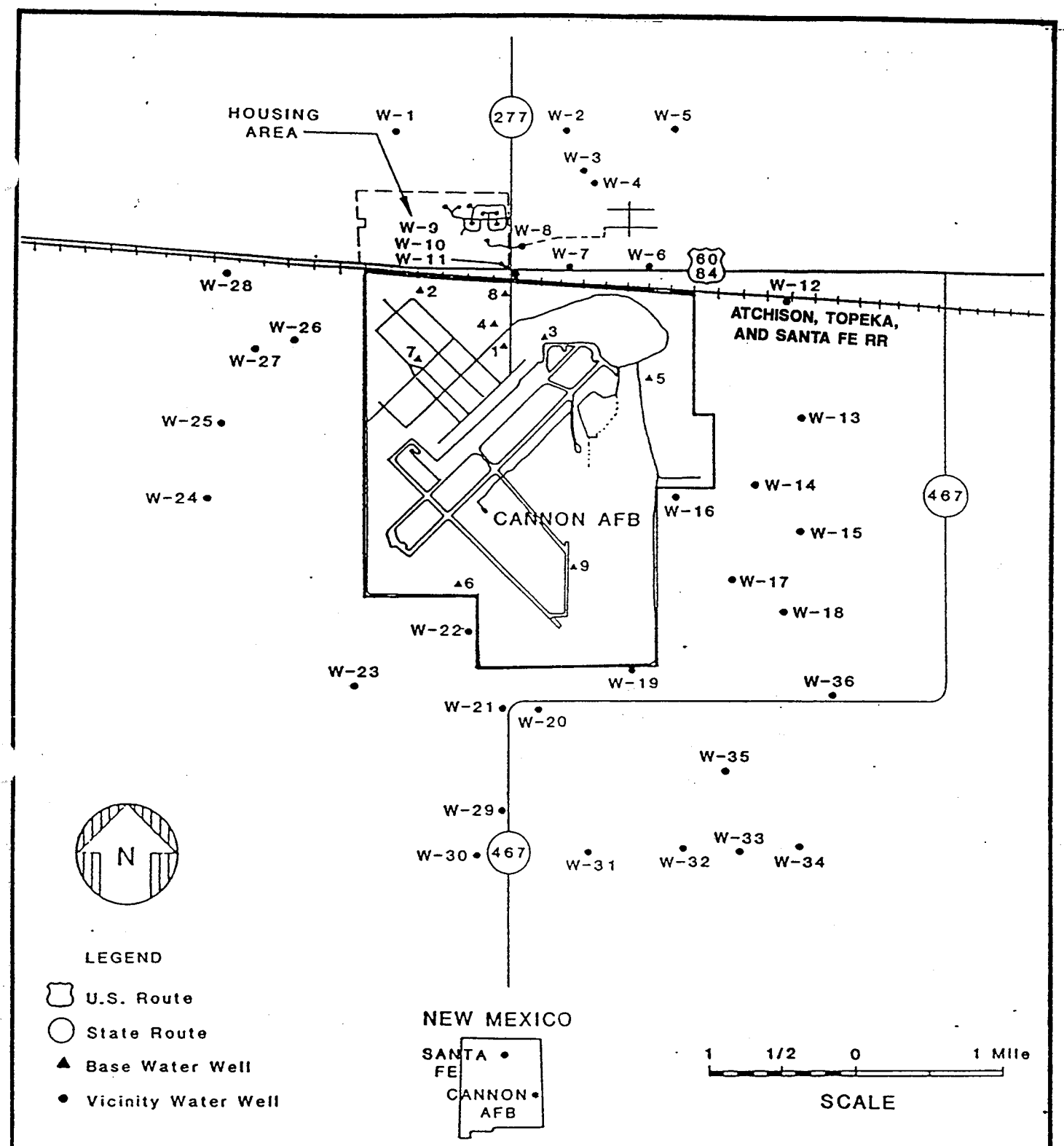


FIG. 2-5

136236



SOURCE: FINAL REPORT, IRP PHASE II (RADIAN 1986)

Job No. : C3M11M	WATER WELL LOCATIONS ON AND NEAR CANNON AFB, NM
Prepared by : M.J.A.	
Date : 8/20/93	

FIG. 2-6

3.0
FIELD INVESTIGATION OBJECTIVES, METHODS AND RESULTS

This section provides a discussion of the field investigation objectives, field methods and procedures, and field activities conducted by W-C at Landfill No. 5 between the period of January 19 through August 1, 1995. Site-specific geologic information obtained from the drilling program is also presented.

3.1 LANDFILL NO. 5 FIELD INVESTIGATION OBJECTIVES

The Workplan was prepared to guide the planned RFI investigation to satisfy the Cannon AFB RCRA Part B permit conditions. The following Project Objectives were developed based on the overall objectives and primary purpose of the Phase I RFI.

- Identify suspected source areas within Landfill No. 5 with the potential to release hazardous constituents into the environment
- Collect environmental data of sufficient quality and quantity to define the nature, extent and rate of migration of releases of hazardous constituents to the environment
- Interpret the data collected to determine if additional phases of investigation are needed to address data gaps as well as whether interim corrective measures and/or Corrective Measures Study (Feasibility Study/Remedial Action under CERCLA) may be necessary
- Collect environmental data of sufficient quality and quantity to determine the potential for releases to migrate toward receptors for the significant pathways
- Collect environmental data of sufficient quality to be used in a screening level Health Risk and Environmental Assessment or BRA (to be conducted in the future, if required) and collect data of sufficient quantity to address all significant exposure pathways

- Collect sufficient quality and quantity of environmental data to support a recommendation of "no further action," if warranted, following the evaluation of the findings of the investigation

- Collect data of a quality that can be used as part of any required follow-on study including a Corrective Measures Study

The rationale for the field investigation activities and sampling locations was presented in the Work Plan. Standard operating procedures (SOPs) and sampling protocols for the field investigations at Landfill No. 5 are contained within the Data Collection Quality Assurance Plan (DCQAP) of the Work Plan.

Each of the field activities at Landfill No. 5 was conducted to meet specific task objectives. The objective of the site survey over Landfill No. 5 was to survey the boundary of Landfill No. 5, erect monuments as markers for this SWMU, create a topographic base map, and establish a grid for the geophysical surveys and soil gas investigation. The objective of the geophysical surveys (electromagnetic and magnetic survey) conducted across Landfill No. 5 was to delineate the edges of the landfill, locate waste-filled pits, trenches and cells within the landfill, identify potential areas of contamination, obtain information for use in performing the soil gas survey, and detect buried metallic objects (i.e., drums) for soil boring clearing. The objective of the soil gas survey was to identify areas of elevated volatile organic compound concentrations in soil gas. The objective of the drilling and soil sampling at Landfill No. 5 was to evaluate the presence of hazardous contaminants, if any, in the surface and subsurface soils and obtain site geologic framework information.

3.2 FIELD OBJECTIVES, METHODS AND RESULTS

This section provides a discussion of the site topographic survey and mapping and specific field investigation objectives, methods and results for the geophysical surveys, the soil gas investigation, and the collection of surface and subsurface soil samples for chemical and geotechnical analysis (including sample labeling, sample handling, documentation, and analysis) at Landfill No. 5. Field investigation activities are discussed below in more detail.

3.2.1 Site Topographic Survey and Mapping

A survey grid was established by a local land surveying company (licensed in the state of New Mexico), Lydick Engineer and Surveyors (Lydick) to establish ground control and provide a detailed topographic base map with one foot contours of Landfill No. 5 (Figure 2-1). The grid established at Landfill No. 5 measured 2,300 feet in the east-west direction and 2,050 in the north-south direction. The state plane coordinates and the established site coordinates for the corners around Landfill No. 5 are shown in (Figure 2-1). The grid was established with wooden survey stakes placed at 50-foot centers across Landfill No. 5. In addition to the wooden stakes, survey lathe annotated with field grid coordinates marked with florescent ribbon were placed at 100-foot centers across the site. The field coordinate system was converted to state plane coordinates for final plotting. The survey grid was established using total station optical survey techniques. Soil boring locations were horizontally located and the elevation surveyed following drilling activities. A copy of the surveyor notes, locations, and coordinates are contained in Appendix A.

3.2.2 Geophysical Investigation

The geophysical work (electromagnetic and magnetic surveys) at Landfill No. 5 was conducted to support subsurface remedial investigations at Landfill No. 5. The geophysical field work occurred from January 19 through January 27, 1995 and was documented in the report entitled "Geophysical Survey Technical Report." This report is included as Appendix B of this RFI report. The Geophysical Survey Technical Report included the purpose and scope of the geophysical work, the geophysical methods used, the detailed field program conducted, and the survey results and conclusions. The objectives of the geophysical investigations, the field methods, and the results for both the electromagnetic and magnetic surveys are summarized below.

The objectives of the geophysical investigation included:

- delineating the edges of the landfill
- locating waste-filled pits, trenches or cells within the landfill
- identifying potential areas of contamination
- obtaining information for use in performing the soil gas survey

The surface geophysical techniques used to accomplish these objectives were electromagnetic (EM) and magnetic surveys. Both surveys were conducted in accordance with SOP No. 2, Surface Geophysical Surveys, which is contained in the DCQAP. The geophysical investigations (electromagnetic and magnetic surveys) at Landfill No. 5 were designed to account for site-specific conditions known about the landfill. Historical records indicated that different types of waste disposal activities were conducted at Landfill No. 5. In the eastern half of the site, waste materials were reportedly buried in linear trenches. Records indicate that most of the trenches and cells within this portion of the site were oriented in a general north-south direction. However, the records also indicated that several generally east-west oriented trenches were located in relatively narrow (approximately 100 feet wide) bands across the southern and northern portions of the area. In the western portion of the site, records indicated that waste may have been disposed of in a semi-random manner over a relatively broad area, which is more typical of general landfill disposal practices.

Considering the historical information described above, the geophysical surveys were conducted using an asymmetrical survey grid established by a local land surveyor (Lydick) (see Section 3.2.1). The data station spacing was adjusted in different portions of the site to provide optimal coverage based on the known or suspected types of waste disposal activities in a particular area. In the eastern portion of the site, data station spacings of 50 feet north-south and 15 feet east-west were used to provide resolution of the north-south oriented trenches. However, in portions of the southern and northern areas, the north-south station spacing was reduced to 25 feet to provide better resolution of the suspected east-west trending trenches. In the western portion of the site, station spacings of 50 feet north-south and 20 feet east-west were used. The geophysical station location map is shown in Figure 3-1.

Electromagnetic Survey

EM methods provide a rapid means of measuring the electrical conductivity of subsurface soil and rock. EM data can aid the characterization of:

- Depth and thickness of subsurface units
- Soil and rock units, and lateral variations within the units
- Lateral extent of buried landfill materials

- Lateral extent of paleochannels
- Lateral and, in some instances, vertical extent of contaminants

The EM method involves the induction of an electrical current into the earth. A small alternating current is generated by a transmitter coil that produces a primary, time-varying magnetic field in the ground. Through inductive coupling, the primary magnetic field produces small eddy currents in the subsurface, which in turn, create their own secondary magnetic field. A receiver coil measures both the primary and secondary fields. Changes in magnitude and phase of the individual currents are output as voltages and are related to the subsurface electrical conductivity. Electrical conductivity is a function of the soil or rock type, the porosity and permeability of the rock units, and the fluids and fluid constituents filling pore spaces.

Depth of investigation is related to the separation between the transmitter and receiver coils. For deeper investigations and by using multiple coil spacings, several penetration depths can be achieved, allowing vertical variations of conductivity to be assessed. However, wider coil spacings also reduce the resolution of small shallow features because a larger volume of material is sampled for the terrain conductivity reading. In addition to the coil spacing, the depth of investigation is dependent on the instrument mode of operation. At a given coil spacing, the EM instruments commonly used for near-surface investigations can be operated in two modes or coil orientations. These are the horizontal dipole mode (coils are vertical coplanar) and the vertical dipole mode (coils are horizontal coplanar).

For the investigation at Landfill No. 5, EM data were collected with a Geonics EM-31. Quadrature phase and inphase measurements were obtained using both the horizontal and vertical dipole modes for effective investigation depths of approximately 9 and 18 feet, respectively. Data obtained from the EM survey was recorded using a data logger that allowed the operator to store and record station coordinate information and EM data simultaneously. The data logger recorded both the quadrature and inphase data.

Magnetic Survey

Magnetics methods provide a rapid means for measuring the earth's magnetic field and local variations of the field. Magnetic data can aid in the characterization of the following:

- Detection of buried metallic objects (borehole clearance, landfill or trench mapping)
- Reconnaissance subsurface geologic mapping

A magnetic survey involves the measurement of the earth's magnetic field at various points on the ground surface. Variations in magnetic susceptibility of subsurface material produce anomalies within the earth's magnetic field which can be measured with a magnetometer.

Magnetic surveys can be conducted using a variety of different types of magnetometers. For this project, a proton-precession type magnetometer was used. With this kind of magnetometer, a small alternating current was passed through a current coil within the sensing chamber of the magnetometer, creating a small magnetic field. Protons from the fluid within the chamber aligned themselves with this temporary magnetic field. When the current was turned off, the magnetic field terminated, and the protons attempted to realign themselves, or process, about the earth's magnetic field. A small signal was generated by the precession of the protons, in the same coil used to polarize them. The signal measured was directly proportional to the total magnetic field intensity at that location. This intensity was displayed digitally on the magnetometer, and expressed in gammas or nanoTeslas.

Two types of magnetic measurements were obtained: total field magnetics and vertical gradient magnetics. The total field intensity is simply the magnitude of the earth's magnetic field vector. The magnetic vertical gradient is a measurement of the difference in the total magnetic field between two sensors set at different fixed heights above the ground. Total field measurements are suitable for reconnaissance surveys and vertical gradient measurements allow resolution of composite or more complex magnetic anomalies.

Magnetics measurements are affected by several sources which interfere with the desired magnetic signal. The effects of these sources must be removed, or corrected, from the magnetics data. Diurnal variations, which are dominated by temporal magnetic variations, are primarily caused by particle and electromagnetic radiation from the sun. These variations are often monitored by either reoccupation of a base station at prescribed time intervals, or by a recording magnetic base station.

Magnetics values (or magnetic gradient values) can be plotted on a map and contoured so that variations over the site can be analyzed. Buried subsurface metal can be indicated by high magnetic values or high vertical gradients. Generally, areas with high magnetic anomalies indicate buried ferromagnetic materials. Low magnetic anomalies can indicate disturbed soils with no ferromagnetic constituents. In many cases, the magnetic anomaly will appear as a dipole characterized by both high and low magnetic values in close proximity to each other. This occurs because the amplitudes of the magnetic measurements are dependent upon the direction the survey traverse approaches the anomalous magnetic field, and upon the subsurface orientation of the anomaly-producing body. The magnetic response and resulting anomaly is proportional to the mass of the subsurface magnetic material. Typically, a single drum can be detected to a depth of 10 to 15 feet. Groups of drums can be detected at depths of 25 feet or more.

For the investigation at Landfill No. 5 magnetic surveys were conducted using an GEM GSM-19 portable magnetometer/gradiometer. Magnetic total field and magnetic vertical gradient data were collected at each station. Base station data used for correcting diurnal variations in the magnetic total field data were collected using a second GEM GSM-19 magnetometer. The magnetic base station was located outside the survey grid (field coordinates North 1890 feet, East 2360 feet) in an apparently undisturbed area.

Geophysical Results

Upon completion of the EM and magnetic surveys, the geophysical data were downloaded to a personal computer. The data were then formatted for input to a contouring program. Data plotting and contouring was accomplished using the computer software GEOSOFT. Data input for the contouring program included the station coordinates and values, a selected spacing for gridding the raw data and a contour interval. Various cultural features were encountered at the site that are readily apparent on the geophysics data contour maps. These features included metal fencing, monitoring wells, buildings, and scrap metal materials.

In interpreting the geophysical results, the likely causative contributors to an anomaly must be considered. The magnetic total field and magnetic gradient respond primarily to buried metallic

objects, although some variations in the total magnetic field will exist across the site due to variable magnetic materials within the near surface soils. Anomalies within the inphase mode of the EM measurements are also dominated by buried (or nearby) metallic objects. The EM quadrature anomalies can be due to buried metallic objects, as well as variations in soil constituents due to varying geology or the existence of buried landfill or hardfill debris materials.

The geophysical contour maps appeared to be consistent with the reported historical activities known to have taken place at the site. The eastern portion of the site is dominated by north-south trending linear anomalies indicative of trenching activities. These linear anomalies are usually displayed as conductivity or magnetic highs, or as dipoles. Geophysical results also depict several east-west trending or southwest trending anomalies in the southern portion of the surveyed area. These anomalies, also likely indicative of trenching activities, are most obvious in the total-field magnetics contour map. In many cases there was good agreement between suspected trench locations and mapped geophysical anomalies as illustrated in a map comparing the total magnetic field results to the trench locations previously mapped by Cannon AFB (Figure 3-2).

In the western portion of the survey area, a much more random distribution of geophysical anomalies exists, with few discernible linear trends (Figure 3-2). This finding supports historical reports that landfill materials may have been deposited in this area using a semi-random landfill disposal operation (i.e., filling of natural depressions), rather than using a trenching disposal method.

Geophysical results were used to help optimize soil gas sampling locations across Landfill No. 5. The geophysical information also provided a better estimation of individual trench locations, to facilitate soil boring drilling so that sampling could take place directly below the waste materials.

3.2.3 Soil Gas Investigation

The soil gas survey at Landfill No. 5 was performed by W-C from February 21 through March 9, 1995 and was documented in the report entitled "Soil Gas Survey Technical Report." The

complete report is included as Appendix C of this RFI report. The Soil Gas Survey Technical Report includes the purpose and scope of the investigation, sample location rationale, soil gas sample collection procedures (i.e., for the field photoionization detector [PID] soil gas screening survey and for soil gas samples analyzed by the on-site mobile gas chromatography [GC] laboratory), field documentation and decontamination procedures. In addition, the report discusses the quality assurance/quality control measures implemented during the investigation and the PID and mobile laboratory GC sample analysis. Data results, comparison of field PID screening and mobile GC analysis results and conclusions are also discussed. The purpose, field methods, and results and conclusions of the soil gas investigation are summarized below.

The purpose of performing the soil gas investigation was to identify areas of elevated concentrations of volatile organic compounds (VOCs) in the soil gas at Landfill No. 5. The soil gas survey was performed as a two phase investigation following completion of the geophysical survey. The first phase of the soil gas survey consisted of the collection and field screening of soil gas samples at 800 locations using a field PID with a 10.2 eV lamp (Figure 3-3).

Soil gas samples were collected according to SOP No. 1 - "Soil Gas Surveys and Field Gas Chromatograph Operation" contained in the DCQAP. Procedures followed during the investigation are documented in the Soil Gas Investigation Report contained in Appendix C. As detailed below, similar sample collection procedures were used for the field PID soil gas screening survey and the collection of samples for GC analysis. Three Geoprobe hydraulic probe-type sampling systems were used to collect soil gas samples from 5 to 10 feet below ground surface at Landfill No. 5. The Geoprobe units were either all-terrain vehicle (ATV) or truck mounted. The Geoprobe sampling system used the static weight of the carrier vehicle and the rapid hammer action (1,500 blows per minute) to drive one-inch diameter soil gas sampling probes into the soil. Required sampling depths were reached by adding successive three-foot extensions of one-inch diameter, flush-threaded probe rod.

The soil gas sampling probe was driven to a target depth of 10 feet below ground surface, or to probe refusal, at each location. If probe refusal occurred between 5 and 10 feet, the depth was recorded and the soil gas sampling was performed at the depth achieved. At locations where probe refusal occurred between the surface and 5 feet, the probe was removed and a second attempt to achieve greater than 5 feet penetration was made within approximately 5 feet of the

original location. The positions of the relocations were recorded in the field log book. If penetration greater than 4 feet could not be achieved in two attempts, the location was abandoned.

Once the sampling depth was achieved, the probe rod was retracted 4 to 8 inches to open the closed end of the soil gas drive point, thereby exposing the interior of the probe to the soil. A stainless steel adapter was attached to the bottom of a 13 foot length of 1/4" outside diameter (OD) polyethylene tubing and a fitted septum was attached to the top. The tubing and adapter were inserted into the probe rod, and threaded into the Post Run Tubing (PRT) soil gas tool at the bottom of the probe rod.

Prior to collection of either the field PID or GC soil gas sample, four 60 cubic centimeter (cc) syringe volumes were withdrawn to flush the system with the in situ soil gases. This volume was equivalent to three times the total dead volume of the probe and disposable tubing (i.e., the entire sampling apparatus).

After flushing the sampling apparatus with in situ soil gas, soil gas samples for the field PID screening analysis were collected in 60 cc plastic syringes. Once the soil gas sample was collected in a syringe, the syringe needle was placed into polyethylene tubing attached to the orifice of the field PID to provide a snug fit. The "Enter" button was then pressed on the field PID to commence the datalogger function, and the plunger on the syringe was evenly pushed to purge the soil gas contents of the syringe over an approximate 6-second period. The maximum reading on the PID was noted and recorded. For the collection of the samples for GC analysis, a surrogate, 1-Chloro-2-fluorobenzene, was injected into the interior of the retractable point, soil gas tool prior to driving the probe. Soil gas samples for the GC analyses were collected in 5 cc glass-teflon, gas-tight syringes. The syringes were used to temporarily store the sample prior to injection into the GC.

The entire PRT soil gas point assembly and adapter was decontaminated and the tubing replaced between soil gas sample locations.

Soil gas sampling equipment which came in contact with soil gas was decontaminated in accordance with SOP No. 4 "Decontamination Procedures" or replaced between each sampling location.

Soil Gas Results

Following review of the PID soil gas results, 78 soil gas samples were collected and analyzed for VOCs using a GC. These 78 soil gas locations were selected based on the concentration of total field PID soil gas results and the proximity of previously mapped landfill trenches and/or geophysical anomalies (Figure 3-3). The soil gas GC analytical results identified specific VOCs present in soil gas at Landfill No. 5.

The majority of the soil gas survey samples for field PID screening were collected in the eastern two-thirds of Landfill No. 5 (i.e., in the area of reported historic landfill trenching operations). The western one-third of the landfill site was investigated using fewer soil gas sample locations, since this area reportedly received only construction debris and rubble. Soil gas samples were collected at 50-foot grid nodes within the eastern portion of the landfill site and focused in areas where trenching reportedly occurred and/or where anomalies were identified during the geophysical surveys. In areas where the 50-foot grid was not considered dense enough to provide sufficient sample coverage, supplemental soil gas samples were collected. In the western portion of the landfill area, soil gas sample locations focused primarily in the playa lake area and at recorded geophysical survey anomalies. In the playa lake area, soil gas screening samples were collected at 100-foot grid nodes. Supplemental soil gas samples were also collected in this area to evaluate geophysical anomalies.

With few exceptions, the highest PID field screening results occurred within or adjacent to the mapped landfill trench boundaries and/or in the area of geophysical anomalies as identified from the magnetic and electromagnetic survey results. Figure 3-4 shows the results of the field PID soil gas survey in comparison to the total field magnetic survey results and reported landfill cell boundaries.

Several of the mapped landfill trench locations where soil gas samples were collected contained no VOCs based on PID field screening. The lack of VOCs may be consistent with reported

information that the land filling operation at some locations at Landfill No. 5 consisted of burning waste before burial and/or may reflect disposal of domestic waste in portions of the landfill.

Of the 78 locations analyzed for VOCs using GC, 51 of the locations indicated concentrations below the laboratory reporting limit of 1.2 parts per million on a volume to volume basis (ppm/v). Thirty-seven of the locations detected volatile organic compounds above the laboratory reporting limit with sixteen different VOC analytes being reported in the soil gas samples. Table 3-1 and Figure 3-5 summarize the GC sample results.

For the sixteen analytes detected in GC analysis of the soil gas, 74 percent of the reported detections were at concentrations below 5.0 ppm/v. The 16 VOC analytes tentatively identified can be separated into three analyte classes: (1) petroleum related or fuel additive compounds (i.e., 5 analytes including; benzene, toluene, ethylbenzene, xylenes, and chloroethane); (2) compounds commonly used in refrigerants or as blowing (foam) agents (i.e., 3 analytes including; trichlorofluoromethane, dichlorodifluoromethane, and chloromethane); and (3) compounds typically used as solvents (i.e., 8 analytes; dichloromethane [methylene chloride], tetrachloroethylene [PCE], trichloroethylene [TCE], 1,1,1,2 - tetrachloroethane, 1,1,1-trichloroethane, 1,1-dichloroethylene, chlorobenzene, and trans 1,2-dichloroethylene).

Results showed that VOCs were present at low concentrations in soil gas at distinct locations within or adjacent to previously mapped landfill trenches. Soil boring locations were subsequently selected for drilling at Landfill No. 5, based on both the soil gas and geophysical survey results.

3.2.4 Surface and Subsurface Soil Investigation

From July 17 through August 1, 1995 thirty soil borings, 11301 through 11330, were drilled to depths ranging from 51 to 80 feet below ground surface (bgs) and surface and subsurface samples were collected for laboratory analysis (Figure 3-6). The rationale for choosing boring locations along with a boring location map was contained in a letter from W-C to USACE dated May 12, 1995. The rationale for and selection of boring locations shown in Figure 3-6 and discussed in the May 12 letter was approved by NMED during a meeting with Cannon AFB

(along with W-C and USACE personnel) held in Santa Fe on June 14, 1995. Table 3-2 from the May 12 letter provides a summary of the location rationale for each boring.

Surface Soil Sample Collection

Surface soil samples were collected for chemical analysis during the field investigations at Landfill No. 5 in accordance with SOP No. 5 - Surface Soil Sampling contained in the DCQAP. Prior to collecting a surface soil sample for chemical analysis, existing vegetation and other foreign matter were cleared from the sampling location using a stainless steel trowel. Using the stainless steel trowel, soil was collected for VOC analysis. Additional soil was then collected and placed into a stainless steel bowl (previously decontaminated) and the sample homogenized and thoroughly mixed with the trowel. The soil was then placed into appropriate sample containers and the samples were immediately labeled and placed in a cooler with ice.

Ten surface soil samples were collected from 0 to 0.5 feet bgs near soil borings 113-01, 113-04, 113-07, 113-10, 113-13, 113-16, 113-19, 113-22, 113-25 and 113-28. These samples were analyzed for VOCs, SVOCs, pesticide/PCB, metals, cyanide, and total recoverable petroleum hydrocarbons (TRPH). In addition, the surface soil sample collected near boring 113-28 was submitted for grain size analysis.

Subsurface Soil Sample Collection

Subsurface soil samples were collected from soil borings which were drilled, sampled, lithologically logged, and grouted in accordance with SOP No. 6 - Subsurface Drilling and Sampling, SOP No. 7 - Lithologic Descriptions of Subsurface Samples, and SOP No. 8 - Borehole Abandonment contained in the DCQAP. Layne Environmental Services, Inc. of Denver, Colorado drilled the soil borings with truck-mounted Central Mine Equipment (CME) 75 high-torque auger drill rigs using hollow-stem augers. A field boring log containing the following information was completed for each boring drilled:

- Boring number, location, and elevation
- Drilling agency, equipment, method, and driller's name
- Geologist's name

- Date started and finished
- Completion depth
- Type of samplers used
- Number and depths of analytical and geotechnical samples
- Number of blows per 6 inches, and sample recoveries
- Sample identification numbers and quality assurance/quality control (QA/QC) samples
- Observations of any contamination or odors
- PID readings for breathing zone, soil boring, and soil samples
- Lithologic descriptions and Unified Soil Classification System (USCS) classifications
- Borehole abandonment information
- Downhole moisture conditions while drilling

CME 5-foot continuous core barrels with polybutyrate liners were used to collect samples for description of the landfill waste material. Upon retrieval and opening of the core barrel soil and waste was extruded from the polybutyrate liners onto the core barrel and a PID was used to screen the entire sample for the presence of volatile organic vapors. In addition, the PID was used to monitor the breathing zone of the on-site personnel. The landfill waste material was described and evidence of burning of the landfill material, if observed, was recorded on the boring log. In accordance with the Work Plan, no samples for chemical analysis were collected from the landfill waste material during the field investigations.

After sampling through the landfill waste material and identifying the landfill/native soil interface, soil samples were collected for chemical and/or lithologic description at approximate 5-foot intervals to 40 feet below the landfill native soil interface using a 2-foot-long, modified California split spoon sampler with stainless steel liners.

The split spoon was driven 24 inches below the top of a targeted interval or until refusal (100 plus blowcounts) with a pneumatic 140-pound hammer falling 30 inches. The number of hammer blows per 6 inches was recorded on the boring log. Upon retrieval and opening of the split spoon, the PID was used to screen the entire sample for the presence of volatile organic vapors in addition to monitoring the breathing zone of the on-site personnel. If there was a

detection of volatile organic vapor on the soil sample using the PID, the stainless steel liner displaying the highest PID reading in the split spoon was selected for VOC analysis. If no PID reading above background was detected when screening the soil sample, the lowermost stainless steel liner within the split spoon sampler was chosen for chemical analysis of VOCs. If a QA/QC sample was designated to be collected for VOC analysis (i.e., field duplicate, matrix spike/matrix spike duplicate [MS/MSD]), either the liner with the second to highest PID reading was chosen if a PID reading was recorded or the second to bottom liner was collected if no PID reading was recorded over the sample. The remainder of the soil sample was then extracted from the stainless steel liners, placed into a decontaminated stainless steel bowl and mixed thoroughly with a decontaminated stainless steel trowel. The soil was then placed into appropriate jars for the following analyses, SVOC, pesticide/polychlorinated biphenyl (PCB), Target Analyte List (TAL) metals, TRPH, total organic carbon (TOC) and herbicides. QA/QC samples and geotechnical samples (for grain size analysis), when collected, were filled at the same time the field samples were collected. Samples collected for chemical analyses were then labeled and placed into a cooler with ice.

All soil cuttings were placed in drums and the drums labeled with the following information, "Contents awaiting testing," Woodward-Clyde Federal Services (WCFS), Landfill No. 5, the boring number, soil interval (depth in feet bgs) placed in each drum, date, and the USAF contact name and phone number. In addition, each drum was given a unique identification number (i.e., LF5-1, LF5-2 etc.). An inventory list of all drums was compiled and is shown in Table 3-3. At the completion of the project, all drums were placed on wooden pallets in a drum staging area located in the northwest corner of Landfill No. 5.

Upon reaching the total depth, the soil boring was then grouted with a portland/cement and bentonite (5%) mixture subsequent to the removal of the hollow-stem augers. The grout was pumped into the boring though the augers and the augers were then slowly withdrawn. The grout was allowed to settle (at least 24 hours) and each soil boring was later topped off with grout, to ground surface. A ten inch metal spike was placed in the surface grout to indicate the original ground surface.

Soil samples for chemical analysis were collected approximately 5 feet below the landfill/native soil interface and at approximate 10 foot intervals thereafter resulting in five subsurface soil

samples from each boring (for a total of 150 field samples, excluding QA/QC samples) being submitted for chemical analysis. Lithologic boring logs for each boring are included in Appendix D. All subsurface soil samples collected for chemical analysis were analyzed for the following SW-846 parameters: VOCs, SVOC, pesticide/PCB, TAL metals, and TRPH. The first analytical sample collected in the native soil immediately below the base of the landfill material at each boring location was also analyzed for herbicides in addition to the above stated parameters. The bottom soil sample collected from each boring for chemical analysis were also analyzed for Appendix IX parameters for VOCs, SVOCs, pesticides/PCB, and TAL metals. Evidence of burned waste within the landfill cell was observed in fourteen soil borings (113-01, 113-06, 113-12, 113-13, 113-18, 113-20, 113-21, 113-22, 113-24, 113-23, 113-25, 113-26, 113-27, 113-30); therefore, in accordance with the Work Plan the bottom soil sample collected for chemical analysis in these borings was also analyzed for dioxins and furans. Twenty-four randomly selected soil samples from various depths in different borings were analyzed for TOC. Sixteen soil samples from various stratigraphic depths were collected from sixteen borings and analyzed for geotechnical parameters (grain size).

In addition to the 30 analytical soil borings drilled (depths ranging from 51 to 80 feet bgs excluding boring 113-31), three geotechnical soil borings 113-32, 113-33, and 113-34 were drilled to depths ranging from 14.5 to 34.0 feet bgs. The total depth of each boring drilled is included in Table 3-2. The three geotechnical soil borings were drilled to delineate the depth of the landfill/native soil interface near boring 113-16 where the base of the landfill was encountered at 40 feet bgs (Figure 3-6).

QA/QC Samples Collected

In accordance with the DCQAP, QA/QC samples (field duplicates, MS/MSD, decontamination water, and split samples) were also collected and submitted to the analytical laboratory to provide a means of assessing the quality of the data obtained during the field sampling program. A total of 8 field duplicates, 10 MS/MSDs, 1 decontamination water, and 16 USACE Missouri River Division (MRD) split samples were collected during the field investigation activities. Blind field duplicate samples were collected to check for sampling and laboratory reproducibility. MS/MSDs were collected to evaluate the precision and bias of a method in a given sample matrix and one decontamination water sample was collected to evaluate the

quality of the potable water obtained during the course of the field work at the supply location near the contractor's area at the base. All QA/QC samples, except for MS/MSDs, were submitted blind to the laboratory.

In addition to the QA/QC samples described above, split samples were collected and submitted to the USACE QA laboratory (MRD) in Omaha, Nebraska. These samples were analyzed for the same parameters as the field samples to aid in evaluating interlaboratory precision as well as consistency of field techniques.

Summary information for soil borings drilled during the Phase I investigation is presented in Table 3-4. Table 3-4 includes the boring number, ground elevation, the date the borings were drilled, total depth of each boring, depth bgs to the landfill/native soil interface and evidence of burning in the landfill material. Also included is the number of surface soil samples, subsurface samples QA/QC samples, (field duplicates, MS/MSDs, MRD splits), and geotechnical samples collected during the field program.

A record of the surface, subsurface, and QA/QC samples collected for chemical or geotechnical analysis including boring number, sampling interval, sample identification number, types of QA/QC samples, date and time samples were collected, PID soil sample readings and analytical parameters tested is shown in Table 3-5.

3.2.4.1 Decontamination Procedures

All soil sampling equipment including stainless steel bowls, trowels, stainless steel liners, split spoons, and core barrels were decontaminated between samples. The sampling equipment was decontaminated using an Alconox wash, a potable water rinse, a hydrochloric acid rinse and a double deionized rinse.

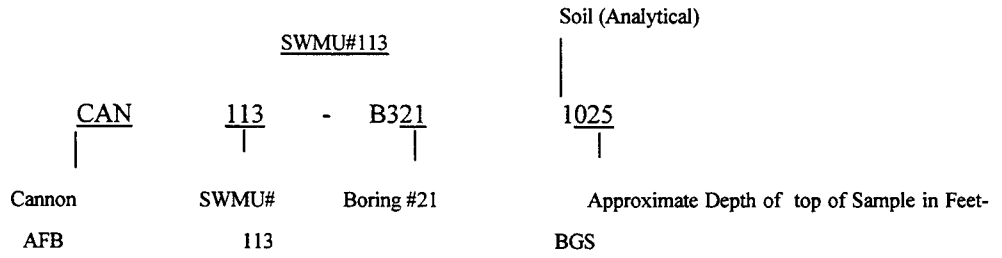
The drill rigs, augers, drill bit, and other larger downhole equipment were decontaminated at the decontamination pad located in the northwest corner of Landfill No 5. Decontamination procedures for the rig and associated downhole equipment (i.e., augers, drill bit) consisted of an Alconox wash using a high pressure steam cleaner, and a potable water rinse. Decontamination procedures were performed in accordance with SOP No. 4 - Equipment Decontamination.

Upon completion of the drilling activities, soil remaining on the decontamination pad from cleaning of the augers was shoveled into drums and waste water remaining on the pad was pumped into drums. Soil and waste water were placed into separate drums, and the drum contents labeled. At the completion of the project, all decontamination pad drums were placed on wooden pallets in the drum staging area, in the northwest corner of Landfill No. 5.

3.2.4.2 Sample Designation

In accordance with the Work Plan, the sample designation system for analytical and geotechnical samples and associated QA/QC samples was a three-letter and eleven-digit/letter unique identification for each sample (CANXXX-YYYY-ZZZZ). CANXXX is the facility identifier with CAN identifying Cannon AFB and XXX identifying the specific SWMU. Since Landfill No. 5 has a three-digit SWMU number and the field investigation required more than 9 boring locations, SWMU #113 was abbreviated as B3. The next four digits/letters (YYYY) identify the specific sampling location, incorporating both the SWMU number and the soil sampling number. All sampling location numbers are SWMU-specific, with the first two numbers or letters corresponding to the SWMU identification number and the last two numbers or letters corresponding to the specific sampling location.

The last four characters (ZZZZ) are the sample identifier. The first digit corresponds to the type of sample (i.e., 1 for soil (analytical), 2 for groundwater, and 4 for soil (geotechnical). The last 3 numbers correspond to the beginning depth of the sample in feet bgs for all soil samples. The following is an example of an identification number for this field investigation.



The QA/QC samples were identified at the location where they were collected and assigned a unique identification number following the same procedure above except for the last four digit

(ZZZZ) identifier. The first two numbers of the QA/QC sample identifier corresponded to SWMU #113. The various SWMUs at Cannon AFB were numbered to aid in the identification of QA/QC samples gathered for each SWMU). Landfill No. 5 sample identification nomenclature followed this convention so that 05 = SWMU No. 113, Landfill No. 5. The third number was either the number 6 denoting a field duplicate, a number 8 denoting a decontamination water sample, or the number 0 denoting the MRD sample split. The last (fourth) digit corresponded to the sequential number of the particular QA/QC sample type. When more than 9 samples for one particular QA/QC type of sample were collected during the field program, the last digit continued with an "a" and proceeded alphabetically thereafter.

The only QA/QC sample type which was not identified above was the MS/MSD sample type. These samples were not discrete samples, but rather an analytical sample which was first analyzed and then spiked by the laboratory and reanalyzed. The samples that were chosen for MS/MSD analyses were labeled in the field as MS/MSD samples and were noted as such on the Chain-of-Custody (COC) forms.

3.2.4.3 Sample Handling, Documentation, and Analysis

All labeling, preservation, handling, shipping, documentation, and tracking for the samples collected for the Landfill No. 5 RCRA Phase I Field Investigation were performed in accordance with SOP No. 9 - Sample Handling, Documentation, and Analysis contained within the DCQAP.

All sample labels were filled out with waterproof ink and numbered. Soil and water sample labels, as well as all sample containers, were supplied by the analytical laboratory. Analytical sample containers were placed in reclosable plastic storage bags and wrapped in protective packing material (i.e., bubble packing). Samples were then placed in trash bags inside a cooler with ice (double bagged using plastic trash bags) for overnight express carrier shipment to Quanterra Laboratory (Quanterra), Arvada, Colorado. A completed and signed Chain-of-Custody was placed in each cooler being shipped. A numbered custody seal was placed on the outside lid of each cooler and the coolers were taped shut.

The surface and subsurface soil samples were analyzed for the following analytical parameters using SW-846 methods:

- Target Compound List (TCL) VOC Method 8240;
- TCL SVOC Method 8270;
- TAL Metals (M) and Cyanide Methods 6010, 7060, 7471, 7740;,7421, 7841;
- Organochlorine pesticides and PCBs (pesticide/PCB) Method 8080;
- Chlorinated herbicides Method 8150;
- TOC Method 9060; and
- TRPH Method 9071/418.1.

Geotechnical gradation samples were labeled and placed in protective packing material (i.e., bubble packing). At completion of field activities the samples were shipped to Totowa Geotechnical Laboratory in Totowa, New Jersey. Gradation (ASTM D-421) and hydrometer (ASTM D-422) analyses were performed on sixteen soil samples (one surface and fifteen subsurface soil samples) by Totowa Laboratory to evaluate the particle size distribution of the soil sample. The distribution of particles larger than 0.074 millimeters (i.e., retained on the No. 200 sieve) was determined by sieving, while the distribution of particles smaller than 0.074 millimeters was determined by hydrometer analysis.

Documentation of observations and data acquired in the field provided information on the acquisition of samples and also provided a permanent record of field activities. The observations and data were recorded with waterproof ink in permanently bound weatherproof field log books with consecutively numbered pages by each geologist and geologist assistant. In addition, all pertinent sampling information for every sample collected for chemical analyses was recorded on a field sampling data sheet. The field sampling data sheets for all surface and subsurface soil samples along with field log books are filed in the W-C Denver, Colorado office.

To supplement the information recorded in the field book and field sampling data sheets, A-E daily quality control reports (DQCRs) were completed by the site manager each day which included documenting equipment used on site, work performed by each drill rig, QC activities, and problems which occurred during the day. These reports were prepared in accordance with the USACE SOS. The DQCRs are on file in the W-C Denver, Colorado office.

3.3 SITE GEOLOGY AND LANDFILL WASTE CHARACTERIZATION

Site Geology

The near surface stratigraphy (upper 82 feet) beneath Landfill No. 5 consists of Tertiary Miocene to Pliocene fluvial deposits of the Ogallala Formation. The Ogallala Formation consists of stream and overbank deposits formed within coalescing alluvial fans. The total thickness of the Ogallala deposit beneath Landfill No. 5 is not presently known, but based on regional information, may be as thick as 390 feet.

As is typical of alluvial deposits, the stratigraphy from boring to boring beneath Landfill No. 5 varies both vertically and laterally over short distances, in particular, caliche or highly calcareous zones within the units. Five geologic profiles, A-A', B-B', C-C', D-D', and E-E' (Figures 3-7 through 3-11, respectively), were constructed to illustrate the vertical and lateral variation of geologic units observed beneath Landfill No. 5. Geologic profiles A-A', B-B' and C-C' run generally west to east, and geologic profiles D-D' and E-E' run north-south across the landfill. Collection intervals for analytical samples are shown along with waste materials encountered in the cells and depth of the cell (native/soil interface).

From lithologic descriptions of the borings drilled through Landfill No. 5, the Ogallala deposit consists primarily of a calcareous/caliche silty sand unit (referenced as "SM" in accordance with the USCS) and calcareous fine-grained sands with trace amounts of silts (referenced as SP in accordance with the USCS) beneath most of Landfill No. 5. A calcareous silty sandy clay unit (designated as CL) was observed at one boring location (boring 11307). Caliche zones are found at various stratigraphic depths, interbedded with the silty sand or fine-grained sand units, and are generally laterally discontinuous from boring to boring except at a few locations. The caliche is generally described as a buff, tan, pink to pinkish white to white unit, medium dense to very dense, with occasional fine to medium grained quartz grains being present.

The calcareous silty sand (SM) unit is the primary geologic unit encountered by the borings drilled during the Phase I RFI at Landfill No. 5. This unit is described as a very fine to fine-grained sand (only occasionally being medium grained and rarely being coarse-grained) with some silt, and occasional clay. The unit is variable in color and is described as a light reddish

tan, buff, tan, dark reddish brown, red orange, and pink orange calcareous silty sand. The unit is variable in its calcium carbonate content/caliche units and therefore its density. Caliche nodules usually tan to chalky white in color occur commonly throughout the rock units beneath the landfill. The geologic units beneath Landfill No. 5 change over short distances from slightly calcareous to highly calcareous, and from loose to very dense.

Occasionally during field logging, sand units were described as having only trace amounts of silt; therefore, the unit was sometimes classified according to the USCS as a poorly-graded fine-grained sand (SP). These rock units were identified in several boring locations and at various stratigraphic depths. Overall the SP units are similar to the SM units (described above) except for the amount of silt observed during borehole logging.

The geologic units encountered beneath Landfill No. 5 during the Phase I RFI drilling program typically showed dry conditions. Occasionally, however, moist or damp conditions were observed over small intervals.

Grain size analyses (hydrometer and sieve analysis) were performed by an off-site laboratory on 16 soil samples. These soil samples were collected at various stratigraphic depths and in different boring locations across the site. Table 3-6 summarizes the USCS results obtained from the laboratory analysis and compares the field USCS designation by the field geologist. Of the 16 soil samples collected and analyzed for grain size analysis, 9 of the samples classified by the laboratory were consistent with field USCS classifications. Five of the 16 soil samples analyzed (soil samples from borings 113-08, 113-14, 113-17, 113-23 and 113-28) were classified by the laboratory with a slightly higher percentage of clay and/or silt fractions then what was observed and logged by the geologists in the field during the Phase I RFI. Two of the 16 soil samples (soil samples from boring 113-03 and 113-09) collected and analyzed for grain size analysis resulted in the laboratory identifying substantial more clay size particles in the soil then what was observed during the field logging activities (Table 3-6).

Landfill Cells

Based on the geophysical surveys and subsequent drilling conducted during the Phase I RFI, approximately 21 landfill cells (exclusive of Cell No. 3) exist at Landfill No. 5 (Figure 3-6). Individual cells were typically 30-50 feet wide and 500 to 1,000 feet long.

The base of landfill cells encountered at Landfill No. 5 ranged in depth from about 7 to 40 feet bgs. Boring 113-29 located near the western boundary of Landfill No. 5 encountered the cell 7 feet bgs (Figure 3-6). Boring 113-16 located in the north central portion of Landfill No. 5 encountered the base of the cell at 40 feet bgs (Figure 3-6). Table 3-4 summarizes the depth of the landfill/native soil interface encountered at each boring location. Material encountered and observed while drilling through the landfill cells included primarily domestic and construction wastes. Domestic waste included plastic, paper, aluminum foil, leaves and twigs and grass clippings, rubber, metal, glass, cardboard, aluminum and tin cans, string, carbonpaper, newspaper, styrofoam, rags, clothing, thread, and bottles. Construction debris included metal fragments and shavings, wood debris, asphalt, bricks, drywall, wire, fiberglass, insulation material, chain link fence, nails, duct tape, screen, steel, plywood, concrete and possible asbestos. In addition, manure was encountered at one boring location. During drilling activities through the landfill cells, waste and soil were found in alternating layers due to intermittent backfilling of native soil over the waste in the cells or trenches. Trash was, therefore, not found continuously throughout the identified cell.

Both the domestic waste and construction debris were found intermixed throughout the entire landfill area. Burned and partially burned wood and paper debris, ash and charcoal were found only in minor amounts while drilling through the landfill material. Fourteen of the 30 analytical borings and 2 of the 3 geotechnical borings drilled showed evidence of burned waste.

Landfill Native Soils

Soils in the vicinity of Landfill No. 5 based on the soil survey of Curry County, New Mexico (USDA 1958) consist of fine sandy loams of the Amarillo Group. The Amarillo Group regionally consists of calcareous sands, silts and clays, is generally dry and is up to 4 feet thick.

(Radian 1986). Native soil encountered at Landfill No. 5 during the July and August 1995 field investigations at Landfill No. 5 were obtained from only two borings drilled (11331 and 11334) (See Appendix D) since these were the only two borings drilled through native soil (i.e., outside of known landfill cells). The soil consisted primarily of fine-grained, well sorted, calcareous, slightly silty, clayey red-brown sands. The sands are comprised predominantly of subangular to subrounded quartz grains. One gradational analysis was performed on a surface sample collected near boring 11328. The results indicated that this soil sample is comprised of approximately 47 percent of sand, and approximately 53 percent silt and clay.

Landfill Backfill

Backfill (soil) over the cells ranged in thickness from about 0.5 feet to 8.0 feet. Backfill consisted primarily of a mixture of silty sand and some clay, with a trace of gravel. The backfilled soil ranged in color from tan white to light brown, pinkish white to red, medium brown to dark brown and red brown. The soil was primarily dry but was moist at some locations and was often calcareous (i.e., caliche nodules). Rootlets were common in the top two to three feet and mottling of the soil was apparent.

T E 3-1
SOIL SURVEY
GC SAMPLE RESULTS SUMMARY

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Soil Gas Grid Point Location	Grid Coordinates		Detected Analyte (ppm/v)							
	North (ft)	East (ft)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1-Dichloroethylene	Benzene	Chlorobenzene	Chloroethane	Chloromethane	Dichloro difluoromethane
B36	600	1750	ND	ND	ND	ND	ND	ND	ND	ND
BB39	1900	1900	ND	ND	ND	ND	ND	ND	ND	ND
BB43	1900	2100	ND	ND	ND	3.0	ND	ND	ND	ND
C32	650	1550	ND	ND	ND	ND	ND	ND	ND	45.0
D32	700	1550	ND	ND	ND	5.8	ND	ND	ND	ND
DD37	2000	1800	ND	ND	ND	5.1	ND	ND	ND	ND
F35	800	1700	ND	ND	ND	ND	ND	ND	ND	7.9
G39	850	1900	ND	ND	ND	ND	ND	ND	ND	ND
H25	900	1200	ND	ND	ND	ND	ND	ND	4.2	1.6
H28	900	1350	ND	ND	ND	ND	ND	ND	ND	ND
H31	900	1500	ND	ND	ND	ND	ND	ND	4.7	84.5
I28	950	1350	ND	ND	ND	ND	ND	ND	ND	ND
I31	950	1500	1.7	ND	ND	ND	ND	ND	ND	ND
I34	950	1650	ND	ND	ND	ND	ND	ND	ND	94.2
J40	1000	1950	ND	4.0	ND	ND	ND	ND	ND	19.9
M43	1150	2100	ND	3.0	ND	ND	ND	ND	ND	ND
N44	1200	2150	ND	ND	ND	ND	ND	ND	4.1	3.4
O39	1250	1900	ND	ND	ND	ND	ND	ND	ND	ND
Q39	1350	1900	ND	ND	ND	2.4	ND	ND	ND	3.4
Q45	1350	2200	ND	ND	ND	3.8	ND	ND	8.2	ND
R33	1400	1600	ND	ND	ND	ND	ND	ND	ND	21.2
R46	1050	2250	ND	ND	ND	ND	ND	ND	ND	ND
SB16	575	1350	ND	ND	ND	ND	ND	ND	ND	3.7
SB30	830	1150	ND	ND	ND	ND	ND	ND	ND	ND
SB36	915	1100	ND	ND	ND	ND	ND	ND	ND	ND
SB54	1850	2025	ND	ND	ND	ND	ND	ND	8.2	ND
SB55	1900	2025	ND	ND	ND	1.8	ND	5.2	ND	ND
SB57	1450	1775	ND	ND	ND	ND	ND	ND	4.4	18.8
SB65	1500	1625	ND	ND	1.4	ND	ND	ND	ND	ND
SB73	1650	1420	ND	ND	ND	ND	ND	ND	4.3	2.4
SB86	1450	1125	ND	ND	ND	ND	ND	ND	ND	ND
T46	1500	2250	ND	ND	ND	ND	2.7	ND	ND	ND
U37	1550	1800	ND	ND	ND	ND	ND	ND	4.1	ND
U43	1550	2100	ND	ND	ND	ND	ND	ND	ND	ND
V43	1600	2100	ND	ND	ND	ND	ND	ND	ND	ND
V45	1600	2200	ND	ND	ND	ND	ND	ND	ND	1.8
Z36	1800	1750	ND	ND	ND	ND	ND	ND	4.4	2.3

ND - not detected at 1.2 ppm/v

T E 3-1
SOIL SURVEY
GC SAMPLE RESULTS SUMMARY

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Soil Gas Grid Point Location	Grid Coordinates		Detected Analyte (ppm/v)								
	North (ft)	East (ft)	Dichloro methane	Ethylbenzene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Trichloro fluormethane	Xylenes	Sum of Concentrations
B36	600	1750	ND	ND	ND	ND	ND	ND	ND	1.9	1.9
BB39	1900	1900	ND	ND	ND	ND	ND	ND	2.1	ND	2.1
BB43	1900	2100	ND	ND	ND	ND	ND	ND	ND	ND	3.0
C32	650	1550	ND	ND	ND	ND	ND	ND	ND	ND	45.0
D32	700	1550	ND	1.4	ND	ND	ND	ND	ND	ND	7.2
DD37	2000	1800	ND	ND	ND	ND	ND	ND	1.7	ND	6.8
F35	800	1700	ND	ND	ND	ND	ND	ND	ND	ND	7.9
G39	850	1900	ND	ND	ND	2.8	ND	ND	ND	ND	2.8
H25	900	1200	ND	ND	ND	ND	ND	ND	ND	ND	5.8
H28	900	1350	ND	ND	ND	ND	ND	ND	ND	2.2	2.2
H31	900	1500	5.6	ND	ND	4.2	ND	ND	ND	ND	99.0
I28	950	1350	ND	ND	11.8	3.1	ND	11.8	ND	2.2	28.9
I31	950	1500	ND	2.1	ND	ND	ND	ND	ND	ND	3.8
I34	950	1650	ND	ND	ND	2.8	ND	ND	ND	ND	97.0
J40	1000	1950	5.5	ND	ND	3.4	ND	ND	ND	ND	32.8
M43	1150	2100	3.2	ND	ND	3.7	ND	ND	ND	ND	9.9
N44	1200	2150	ND	ND	ND	2.9	ND	ND	ND	ND	10.4
O39	1250	1900	ND	ND	ND	3.1	ND	ND	ND	ND	3.1
Q39	1350	1900	ND	ND	ND	ND	ND	ND	ND	ND	5.8
Q45	1350	2200	ND	ND	ND	3.1	ND	ND	ND	ND	15.1
R33	1400	1600	2.9	ND	ND	ND	ND	ND	ND	ND	24.1
R46	1050	2250	ND	1.4	ND	ND	ND	ND	ND	ND	1.4
SB16	575	1350	ND	ND	ND	ND	ND	ND	ND	ND	3.7
SB30	830	1150	ND	ND	ND	1.7	ND	ND	ND	ND	1.7
SB36	915	1100	ND	ND	ND	ND	ND	ND	ND	1.4	1.4
SB54	1850	2025	4.1	ND	ND	6.6	ND	ND	ND	ND	18.9
SB55	1900	2025	ND	ND	ND	ND	ND	ND	3.9	ND	10.9
SB57	1450	1775	ND	ND	ND	2.5	ND	ND	ND	ND	25.7
SB65	1500	1625	8.6	ND	ND	4.4	2.6	38.7	ND	ND	55.7
SB73	1650	1420	ND	ND	ND	ND	ND	ND	ND	ND	6.7
SB86	1450	1125	ND	ND	ND	2.5	ND	ND	ND	ND	2.5
T46	1500	2250	ND	ND	ND	ND	ND	ND	ND	ND	2.7
U37	1550	1800	ND	ND	ND	ND	ND	ND	ND	ND	4.1
U43	1550	2100	ND	ND	ND	ND	ND	ND	1.7	ND	1.7
V43	1600	2100	4.0	ND	ND	ND	ND	ND	ND	ND	4.0
V45	1600	2200	ND	ND	ND	3.6	ND	ND	ND	ND	5.4
Z36	1800	1750	ND	ND	ND	2.5	ND	ND	ND	ND	9.2

ND - not detected at 1.2 ppm/v

TABLE 3-2
SOIL BORING LOCATIONS FOR LANDFILL NO. 5
INCLUDING LOCATION RATIONALE
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Boring Number	Boring Designation	Location Field Coordinates (Grid Point)	Location Rationale[1]
B-1	113-01	N-1400, E-2250 (R46)	1, 2, 3A(1), 3E
B-2	113-02	N-1800, E-2200 (Z45)	1, 2, 3A(2)
B-3	113-03	N-1550, E-2100 (U43)	1, 2, 3A(1), 3E
B-4	113-04	N-1200, E-2150 (N44)	1, 2, 3A(1), 3E
B-5	113-05	N-1150, E-2100 (M43)	1, 2, 3A(1), 3D, 3E
B-6	113-06	N-1850, E-2025 (SB54)	1, 3A(1), 3E
B-7	113-07	N-1750, E-1975 (SB52)	1, 3A(1)
B-8	113-08	N-1450, E-2025 (SB46)	1, 3A(1)
B-9	113-09	N-700, E-1950 (D40)	1, 2, 3A(2)
B-10	113-10	N-1000, E-1950 (J40)	1, 2, 3A(1), 3D, 3E
B-11	113-11	N-1250, E-1900 (O39)	1, 2, 3A(1), 3E
B-12	113-12	N-1450, E-1775 (SB57)	1, 2, 3A(1), 3E
B-13	113-13	N-850, E-1900 (G39)	1, 2, 3A(1), 3E
B-14	113-14	N-1000, E-1800 (J37)	1, 2, 3A(2)
B-15	113-15	N-800, E-1700 (F35)	1, 2, 3A(1), 3E
B-16	113-16	N-1500, E-1500 (T31)	1, 2, 3A(2)
B-17	113-17	N-1250, E-1650 (O34)	1, 2, 3A(1)
B-18	113-18	N-1500, E-1625 (SB65)	1, 2, 3A(1), 3D, 3E
B-19	113-19	N-1850, E-1600 (AA33)	1, 3A(1)
B-20	113-20	N-1650, E-1420 (SB73)	3A(3), 3E
B-21	113-21	N-700, E-1550 (D32)	2, 3A(2), 3C, 3E
B-22	113-22	N-950, E-1350 (I28)	1, 2, 3A(2), 3B, 3D, 3E
B-23	113-23	N-1150, E-1350 (M28)	1, 2, 3A(1), 3E

TABLE 3-2
(Concluded)

Boring Number	Boring Designation	Location Field Coordinates (Grid Point)	Location Rationale[1]
B-24	113-24	N-900, E-1500 (H31)	2, 3, 3E
B-25	113-25	N-900, E-1200 (H25)	1, 2, 3A(2), 3E
B-26	113-26	N-835, E-1000 (SB33)	2, 3A(1)
B-27	113-27	N-1250, E-1175 (SB81)	2, 3A(1)
B-28	113-28	N-1400, E-1075 (SB87)	2, 3A(1)
B-29	113-29	N-1200, E-725 (SG10)	2, 3A(2)
B-30	113-30	N-1550, E-550 (U12)	2, 3A(2)

Notes:

(1) Location rationale designations correspond to the following:

1 - Within trench boundary previously mapped by CAFB.
2 - Mapped geophysical anomaly (total magnetics primary consideration; electromagnetic results secondary).
3 - Soil gas results.

A(1) elevated field PID reading within mapped trench boundary/geophysical anomaly.

A(2) low field PID reading within mapped trench boundary/geophysical anomaly.

A(3) elevated field PID reading outside of mapped trench boundary/geophysical anomaly.

B low field PID, moderate GC concentration of chlorinated solvents.

C low or non-detect field PID readings, detectable petroleum related compounds in GC.

D VOCs in GC samples. VOCs could pose human health risk if found at moderate to low concentrations in soil.

E Compare VOCs identified in soil gas by GC to those identified by GC/MS in soil samples to be collected in Phase I RFI.

TABLE 3-3

DRUM INVENTORY
SOIL BORING PROGRAM
PHASE I RFI, LANDFILL NO. 5
JULY 19 - AUGUST 1, 1995

Drum Inventory No.	Borehole No.	Depth (feet)	Contents
Borehole Drill Cuttings			
LF5-1	11304	0-15	Drill Cuttings
LF5-2	11304	15-55	(drums No. 1 through 94)
LF5-3	11328	0-57[1]	
LF5-4	11329	0-7	
LF5-5	11328	0-16	
LF5-6	11304	55-57	
LF5-7	11328	16-55	
LF5-8	11327	0-58[1]	
LF5-9	11327	0-16	
LF5-10	11327	0-58	
LF5-11	11329	0-16	
LF5-12	11307	0-61[1]	
LF5-13	11307	19-59	
LF5-14	11307	0-19	
LF5-15		grout	
LF5-16	11323	0-55[1]	
LF5-17	11323	0-14	
LF5-18	11323	14-40	
LF5-19	11322	0-18	
LF5-20	11322	18-55	
LF5-21	11322	0-56.5[1]	
LF5-22	11329	0-52[1]	
LF5-23	11305	19-55	
LF5-24	11305	55-61	
LF5-25	11326	16-46	
LF5-26	11305	0-19	
LF5-27	11326	0-16	
LF5-28	11326	0-57[1]	
LF5-29	11308	-20 + grout	
LF5-30	11308	20-53	
LF5-31	11308	53-57	
LF5-32	11325	0-62[1]	
LF5-33	11325	24-26	
LF5-34	11325	-24 + grout	
LF5-35	11330	0-52[1]	
LF5-36	11330	9-40	
LF5-37	11330	40-52	
LF5-38	11310	58-66	
LF5-39	11310	0-24	
LF5-40	11310	24-58	
LF5-41	11311	0-26	
LF5-42	11311	26-67	
LF5-43	11311	0-67[1]	
LF5-44	11324	0-18	
LF5-45	11324	18-50	
LF5-46	11324	0-60[1]	
LF5-47	11317	0-19	
LF5-48	11317	19-50	
LF5-49	11317	0-55[1]	
LF5-50	11312	0-23	
LF5-51	11312	23-55	
LF5-52	11312	0-66[1]	
LF5-53	11318	0-28	
LF5-54	11318	28-50	
LF5-55	11318	0-63.8[1]	
LF5-56	11316	0-40	
LF5-57	11316	40-60	
LF5-58	11316	0-82[1]	
LF5-59	11320	0-12	
LF5-60	11320	12-53	
LF5-61	11320	0-53[1]	
LF5-62	11319	0-18	
LF5-63	11319	18-56.5	
LF5-64	11319	0-56.5[1]	
LF5-65	11321	0-17	
LF5-66	11321	17-50	
LF5-67	11321	0-59[1]	
LF5-68	11314	0-32	
LF5-69	11314	32-67	
LF5-70	11314	0-68.5[1]	
LF5-71	11309	0-18	
LF5-72	11309	18-54	
LF5-73	11309	0-54[1]	
LF5-74	11306	0-16	
LF5-75	11306	16-45	
LF5-76	11306	0-58[1]	
LF5-77	11302	0-14	
LF5-78	11302	14-51	
LF5-79	11302	0-51[1]	
LF5-80	11303	0-23	
LF5-81	11303	23-55	
LF5-82	11303	0-60[1]	
LF5-83	11301	0-23	
LF5-84	11301	23-55	
LF5-85	11301	0-65[1]	
LF5-86	11313	0-22	
LF5-87	11313	22-50	
LF5-88	11313	0-65[1]	
LF5-89	11315	0-20	
LF5-90	11315	20-56	
LF5-91	11315	0-56 + grout[1]	
LF5-92	11334	0-15	
LF5-93	11333	0-34	
LF5-94	11332	0-29	
LF5-95	NA	NA	

TABLE 3-3

DRUM INVENTORY
SOIL BORING PROGRAM
PHASE I RFI, LANDFILL NO. 5
JULY 19 - AUGUST 1, 1995

Drum Inventory No.	Contents
Decon Pad Drill Cuttings	
LF5-96	Drill Cuttings from Decon of equipment at Decon Pad (drums No. 96 through 100)
LF5-97	
LF5-98	
LF5-99	
LF5-100	
Decon Water	
LF5-101	Decon water from Decon Pad (drums No. 101 through 111)
LF5-102	
LF5-103	
LF5-104	
LF5-105	
LF5-106	
LF5-107	
LF5-108	
LF5-109	
LF5-110	
LF5-111	
LF5-112	Sampling Equipment Decon water (drums No. 112 and 113)
LF5-113	

Note: (1) Cuttings generated when augers were pulled during grouting

TABLE 3-4

SOIL BORING SUMMARY
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Boring No.	Elevation	Date(s) Drilled	Total Depth (ft-bgs)	Landfill/Native Soil Interface (ft-bgs)	Evidence of Burned Waste	Field Samples		QA/QC Samples			Geotechnical Samples
						Surface Samples	Subsurface Samples	Field Duplicates	MS/MSD	MRD Splits	
Geotechnical Borings											
11332	4261.13		29.0	23	Yes						
11333	4262.01		34.0	30	Yes						
11334	4262.70		14.5	N.E.							
Analytical Borings											
11301	4264.66	31-Jul-95	65	23	Yes	1	5			1	1
11302	4263.47	31-Jul-95	51	9	No		5				
11303	4264.76	30-Jul-95	59.9	17.5	No		5		1	1	1
11304	4263.93	20-Jul-95	57	15	No	1	5				1
11305	4264.47	20-Jul-95	61	19.5	No		5			2	
11306	4264.85	30-Jul/31-Jul-95	58	16	Yes		5	1			
11307	4264.25	20-Jul/21-Jul-95	61	19	No	1	5	1			
(11331)*	4264.99	Need Date	9.5	N.E.							
11308	4264.85	20-Jul/21-Jul-95	57	15.5	No		5	1	1		1
11309	4261.77	28-Jul/29-Jul-95	54.3	12.5	No		5	1			1
11310	4263.64	19-Jul-95	65	23.5	No	1	5	1			
11311	4264.69	19-Jul-95	66.4	26	No		5		1		1
11312	4264.82	27-Jul-95	66.0	22.5	Yes		5			1	
11313	4262.70	30-Jul-95	65	21.5	Yes	1	5		1	1	1
11314	4262.63	28-Jul-95	68.5	27	No		5				1
11315	4263.43	29-Jul/30-Jul-95	55.8	15	No		5				
11316	4262.70	26-Jul-95	80	40	No	1	5	1			
11317	4263.93	26-Jul-95	55	13	No		5		1	2	1
11318	4264.46	26-Jul/27-Jul-95	63.8	23	Yes		5				
11319	4265.28	27-Jul-95	56.5	12.5	No	1	5				
11320	4263.16	27-Jul-95	53	11.5	Yes		5				

TABLE 3-4

SOIL BORING SUMMARY
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

						Field Samples		QA/QC Samples			
Boring No.	Elevation	Date(s) Drilled	Total Depth (ft-bgs)	Landfill/Native Soil Interface (ft-bgs)	Evidence of Burned Waste	Surface Samples	Subsurface Samples	Field Duplicates	MS/MSD	MRD Splits	Geotechnical Samples
11321	4264.47	28-Jul/29-Jul-95	59	17	Yes		5				1
11322	4263.63	23-Jul/24-Jul-95	58.5	13	Yes	1	5		1		
11323	4263.59	24-Jul-95	55	14	Yes		5			2	1
11324	4265.92	28-Jul-95	60	18	Yes		5				1
11325	4262.81	23-Jul-95	62	18.5	Yes	1	5		1		1
11326	4260.28	23-Jul-95	56.5	16.5	Yes		5	1		2	1
11327	4262.56	22-Jul-95	58	16	Yes		5			2	1
11328	4262.02	22-Jul-95	57	15.5	No	1	5				1
11329	4262.70	21-Jul-95	51.8	7	No		5		1	1	
11330	4262.12	21-Jul/22-Jul-95	52	9	Yes		5	1		1	

Notes:
ft - Feet
ft-bgs - Feet below ground surface
NE - Not Encountered
All boreholes were drilled with a CME-75 drill rig with hollow stem augers. Samples were collected for chemical or geotechnical analyses in split spoons with stainless steel liner.
* Boring 11331 was terminated at 9.5 feet bgs since a landfill cell had not been encountered. The location was moved 4 feet west from Boring 11331 and redrilled as Boring 1130

TABLE 3-5

SUMMARY OF SURFACE SOIL, SUBSURFACE SOIL, AND QA/QC SAMPLES COLLECTED FOR CHEMICAL OR GEOTECHNICAL GRAIN SIZE ANALYSIS
Landfill No. 5 (SWMU No. 5/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING NUMBE	DEPTH INTERVAL (FT-BGS)	SAMPLE IDENTIFICATION NUMBER	QA/QC SAMPLES	SAMPLE MATRIX	DATE SAMPLED	TIME SAMPLE	PID ON SAMPLE (ppm)	ANALYTICAL PARAMETERS
11301	0.0 to 0.5	CAN113 B30 0569	FD	Soil	8/1/95		N.R.	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	0.0 to 0.5	CAN113 B30 1001	MS/MSD	Soil	8/1/95		N.R.	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	0.0 to 0.5	CAN113 B30 1000		Soil	7/31/95	0845	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	28.0 to 30.0	CAN113 B30 1028		Soil	7/31/95	1000	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	28.0 to 30.0	CAN113 B30 0501	MRD	Soil	7/31/95	1000	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	34.0 to 36.0	CAN113 B30 1034		Soil	7/31/95	1021	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	34.0 to 36.0	CAN113 B30 4034		Soil	7/31/95	1021	0	Geotechnical Analyses
		CAN113 B30 0581	DECON	Water	7/31/95		NR	VOC, SVOC, PCB/Pest, Metals, TRPH, HERB, TOC
	45.0 to 47.0	CAN113 B30 1045		Soil	7/31/95	1301	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	55.0 to 56.9	CAN113 B30 1055		Soil	7/31/95	1402	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	63.0 to 64.8	CAN113 B30 1063		Soil	7/31/95	1440	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11302	14.0 to 16.0	CAN113 B30 1014		Soil	7/31/95	1051	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	20.0 to 22.0	CAN113 B30 1020		Soil	7/31/95	1104	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	30.0 to 31.5	CAN113 B30 1030		Soil	7/31/95	1246	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	40.0 to 41.8	CAN113 B30 1040		Soil	7/31/95	1323	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	49.0 to 51.0	CAN113 B30 1050		Soil	7/31/95	1352	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11303	23.0 to 25.0	CAN113 B30 1023	MS/MSD	Soil	7/30/95	1002	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	23.0 to 25.0	CAN113 B30 4023		Soil	7/30/95	1002	0	Geotechnical Analyses
	28.0 to 30.0	CAN113 B30 1028		Soil	7/30/95	1017	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	28.0 to 30.0	CAN113 B30 0502	MRD	Soil	7/30/95	1017	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	40.0 to 42.0	CAN113 B30 1040		Soil	7/30/95	1044	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	50.0 to 51.4	CAN113 B30 1050		Soil	7/30/95	1116	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	58.0 to 59.9	CAN113 B30 1058		Soil	7/30/95	1201	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11304	0.0 to 0.5	CAN113 B30 1000		Soil	7/20/95	0735	7	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	20.0 to 22.0	CAN113 B30 1020		Soil	7/20/95	0945	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	25.0 to 27.0	CAN113 B30 1025		Soil	7/20/95	1009	3.4	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	35.0 to 36.3	CAN113 B30 1035		Soil	7/20/95	1120	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	45.0 to 47.0	CAN113 B30 1045		Soil	7/20/95	1158	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 47.0	CAN113 B30 4045		Soil	7/20/95	1158	0	Geotechnical
	55.0 to 57.0	CAN113 B30 1055		Soil	7/20/95	1237	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11305	24.5 to 26.5	CAN113 B30 1024		Soil	7/20/95	0912	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	24.5 to 26.5	CAN113 B30 0503	MRD	Soil	7/20/95	0912	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	29.5 to 31.5	CAN113 B30 1029		Soil	7/20/95	0935	40	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	39.5 to 40.3	CAN113 B30 1039		Soil	7/20/95	1018	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	49.5 to 51.0	CAN113 B30 1049		Soil	7/20/95	1053	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	59.5 to 60.8	CAN113 B30 1059		Soil	7/20/95	1228	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
	59.5 to 60.8	CAN113 B30 0504	MRD	Soil	7/20/95	1228	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11306	20.0 to 21.9	CAN113 B30 1020		Soil	7/30/95	1550	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB, TOC
	25.0 to 27.0	CAN113 B30 1025		Soil	7/30/95	1605	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	35.0 to 37.0	CAN113 B30 1035		Soil	7/30/95	1632	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 47.0	CAN113 B30 1045		Soil	7/30/95	1703	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	55.0 to 57.5	CAN113 B30 1055		Soil	7/30/95	1804	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
	55.0 to 57.5	CAN113 B30 0561	FD	Soil	7/30/95	1804	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11307	0.0 to 0.5	CAN113 B30 1000		Soil	7/20/95	1746	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	24.0 to 26.0	CAN113 B30 1024		Soil	7/21/95	0818	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	29.0 to 30.8	CAN113 B30 1029		Soil	7/21/95	1115	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	39.0 to 41.0	CAN113 B30 1039		Soil	7/21/95	1156	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	49.0 to 51.0	CAN113 B30 1049		Soil	7/21/95	1245	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	59.0 to 60.9	CAN113 B30 1059		Soil	7/21/95	1355	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
	59.0 to 60.9	CAN113 B30 0562	FD	Soil	7/21/95	1355	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11308	20.0 to 22.0	CAN113 B30 1020		Soil	7/21/95	0749	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	20.0 to 22.0	CAN113 B30 4020		Soil	7/21/95	0749	0	Geotechnical
	25.0 to 27.0	CAN113 B30 1025		Soil	7/21/95	0810	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	25.7 to 27.0	CAN113 B30 0563	FD	Soil	7/21/95	0810	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	35.0 to 35.9	CAN113 B30 1035		Soil	7/21/95	0840	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 47.0	CAN113 B30 1045		Soil	7/21/95	0957	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	55.0 to 57.0	CAN113 B30 1055	MS/MSD	Soil	7/21/95	1035	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11309	18.0 to 20.0	CAN113 B30 1018		Soil	7/28/95	1528	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	25.0 to 26.5	CAN113 B30 1025		Soil	7/28/95	1555	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	25.0 to 26.5	CAN113 B30 4025		Soil	7/28/95	1555	0	Geotechnical Analyses
	35.0 to 36.9	CAN113 B30 1035		Soil	7/28/95	1633	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	35.0 to 36.9	CAN113 B30 0564	FD	Soil	7/28/95	1633	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 47.0	CAN113 B30 1045		Soil	7/28/95	1658	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	53.0 to 54.3	CAN113 B30 1053		Soil	7/28/95	1737	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH

TABLE 3-5

SUMMARY OF SURFACE SOIL, SUBSURFACE SOIL, AND QA/QC SAMPLES COLLECTED FOR CHEMICAL OR GEOTECHNICAL GRAIN SIZE ANALYSIS
Landfill No. 5 (SWMU No. 5/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING NUMBE	DEPTH INTERVAL (FT-BGS)	SAMPLE IDENTIFICATION NUMBER	QA/QC SAMPLES	SAMPLE MATRIX	DATE SAMPLED	TIME SAMPLE	PID ON SAMPLE (ppm)	ANALYTICAL PARAMETERS
11310	0.0 to 0.5	CAN113 B31 1000		Soil	7/19/95	0814	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	0.0 to 0.5	CAN113 B31 0565	FD	Soil	7/19/95	0814	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	29.5 to 31.0	CAN113 B31 1029		Soil	7/19/95	1007	0	AIX (VOC, SVOC, PCB/Pest, TAL Metals), TRPH
	34.0 to 35.3	CAN113 B31 1034		Soil	7/19/95	1102	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	44.0 to 46.0	CAN113 B31 1044		Soil	7/19/95	1140	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	54.0 to 55.0	CAN113 B31 1054		Soil	7/19/95	1215	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	64.0 to 65.0	CAN113 B31 1064		Soil	7/19/95	1350	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11311	31.0 to 33.0	CAN113 B31 1031		Soil	7/19/95	1110	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, Herb
	35.0 to 35.8	CAN113 B31 1035		Soil	7/19/95	1148	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, Herb
	45.0 to 47.0	CAN113 B31 1045		Soil	7/19/95	1244	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, Herb
	45.0 to 47.0	CAN113 B31 4045		Soil	7/19/95	1244	0	Geotechnical sample - Grain Size Analysis
	55.0 to 57.0	CAN113 B31 1055	MS/MSD	Soil	7/19/95	1319	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	65.0 to 66.4	CAN113 B31 1065		Soil	7/19/95	1417	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11312	27.5 to 29.5	CAN113 B31 1027		Soil	7/27/95	1445		VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	34.0 to 36.0	CAN113 B31 1034		Soil	7/27/95	1530	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	45.0 to 47.0	CAN113 B31 1045		Soil	7/27/95	1602	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 47.0	CAN113 B31 0505	MRD	Soil	7/27/95	1602	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	55.0 to 57.0	CAN113 B31 1055		Soil	7/27/95	1634	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	65.0 to 65.6	CAN113 B31 1065		Soil	7/27/95	1720	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11313	0.0 to 0.5	CAN113 B31 1000		Soil	7/30/95	0735	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	27.0 to 29.0	CAN113 B31 1027		Soil	7/30/95	0935	80	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	32.0 to 34.0	CAN113 B31 1032	MS/MSD	Soil	7/30/95	0943	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	40.0 to 42.0	CAN113 B31 1040		Soil	7/30/95	1019	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	40.0 to 42.0	CAN113 B31 4040		Soil	7/30/95	1019	0	Geotechnical Analyses
	50.0 to 51.5	CAN113 B31 1050		Soil	7/30/95	1048	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	50.0 to 51.5	CAN113 B31 0506	MRD	Soil	7/30/95	1048	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	62.0 to 64.5	CAN113 B31 1062		Soil	7/30/95	1153	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11314	32.0 to 33.9	CAN113 B31 1032		Soil	7/28/95	0852	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	38.0 to 39.1	CAN113 B31 1038		Soil	7/28/95	0924	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	45.0 to 47.0	CAN113 B31 1045		Soil	7/28/95	0950	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	57.0 to 60.5	CAN113 B31 1057		Soil	7/28/95	1110	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	67.0 to 68.5	CAN113 B31 1067		Soil	7/28/95	1146	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
	67.0 to 68.5	CAN113 B31 4067		Soil	7/28/95	1146	0	Geotechnical Analyses
11315	20.0 to 22.0	CAN113 B31 1020		Soil	7/29/95	1055	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	25.0 to 27.0	CAN113 B31 1025		Soil	7/29/95	1119	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	35.0 to 35.8	CAN113 B31 1035		Soil	7/29/95	1144	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 46.8	CAN113 B31 1045		Soil	7/29/95	1224	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	55.0 to 55.8	CAN113 B31 1055		Soil	7/29/95	1306	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11316	0.0 to 0.5	CAN113 B31 1000		Soil	7/26/95	0801	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 46.9	CAN113 B31 1045		Soil	7/26/95	1310	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	45.0 to 46.9	CAN113 B31 0566	FD	Soil	7/26/95	1310	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	50.0 to 50.9	CAN113 B31 1050		Soil	7/26/95	1325	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	60.0 to 60.9	CAN113 B31 1060		Soil	7/26/95	1355	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	70.0 to 70.8	CAN113 B31 1070		Soil	7/26/95	1600	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	80.0 to 81.5	CAN113 B31 1080		Soil	7/26/95	1645	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11317	19.0 to 20.3	CAN113 B31 1019	MRD	Soil	7/26/95	0903	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	19.0 to 20.3	CAN113 B31 0507		Soil	7/26/95	0903	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	25.0 to 26.5	CAN113 B31 1025		Soil	7/26/95	1002	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	25.0 to 26.5	CAN113 B31 0508	MRD	Soil	7/26/95	1002	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	35.0 to 36.3	CAN113 B31 1035	MS/MSD	Soil	7/26/95	1040	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 46.9	CAN113 B31 1045		Soil	7/26/95	1139	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 46.9	CAN113 B31 4045		Soil	7/26/95	1139	0	Geotechnical Analyses
	53.0 to 55.0	CAN113 B31 1053		Soil	7/26/95	1211	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH

TABLE 3-5

SUMMARY OF SURFACE SOIL, SUBSURFACE SOIL, AND QA/QC SAMPLES COLLECTED FOR CHEMICAL OR GEOTECHNICAL GRAIN SIZE ANALYSIS
Landfill No. 5 (SWMU No. 5/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING NUMBE	DEPTH INTERVAL (FT-BGS)	SAMPLE IDENTIFICATION NUMBER	QA/QC SAMPLES	SAMPLE MATRIX	DATE SAMPLED	TIME SAMPLE	PID ON SAMPLE (ppm)	ANALYTICAL PARAMETERS
11318	28.0 to 29.9	CAN113 B31 1028		Soil	7/26/95	1642	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	33.0 to 35.0	CAN113 B31 1033		Soil	7/26/95	1656	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 47.0	CAN113 B31 1045		Soil	7/27/95	0738	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	55.0 to 56.5	CAN113 B31 1055		Soil	7/27/95	0820	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	63.0 to 63.8	CAN113 B31 1063		Soil	7/27/95	0903	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11319	0.0 to 0.5	CAN113 B31 1000		Soil	7/27/95	1054	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	18.0 to 20.0	CAN113 B31 1018		Soil	7/27/95	1315	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	25.0 to 27.0	CAN113 B31 1025		Soil	7/27/95	1340	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	35.0 to 35.9	CAN113 B31 1035		Soil	7/27/95	1411	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 47.0	CAN113 B31 1045	MS/MSD	Soil	7/27/95	1446	0	TAL Metals
	53.0 to 56.5	CAN113 B31 1053		Soil	7/27/95	1528	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11320	16.0 to 17.5	CAN113 B32 1016		Soil	7/27/95	0851	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	20.0 to 22.0	CAN113 B32 1020		Soil	7/27/95	0913	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	30.0 to 32.0	CAN113 B32 1030		Soil	7/27/95	0945	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	40.0 to 41.8	CAN113 B32 1040		Soil	7/27/95	1010	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	52.0 to 53.0	CAN113 B32 1052		Soil	7/27/95	1055	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11321	22.0 to 22.9	CAN113 B32 1022		Soil	7/28/95	1549	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	27.0 to 29.0	CAN113 B32 1027		Soil	7/28/95	1633	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	35.0 to 35.8	CAN113 B32 1035		Soil	7/28/95	1712	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 46.8	CAN113 B32 1045		Soil	7/28/95	1714	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	57.0 to 58.8	CAN113 B32 1057		Soil	7/29/95	0823	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
	57.0 to 58.0	CAN113 B32 4057		Soil	7/29/95	0823	0	Geotechnical Analyses
11322	0.0 to 0.5	CAN113 B32 1000		Soil	7/23/95	1356	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	18.0 to 20.0	CAN113 B32 1018		Soil	7/24/95	0729	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	25.0 to 25.5	CAN113 B32 1025		Soil	7/24/95	0901	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	35.0 to 36.2	CAN113 B32 1035	MS/MSD	Soil	7/24/95	0934	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 45.9	CAN113 B32 1045		Soil	7/24/95	1003	0.5	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	56.5 to 58.5	CAN113 B32 1056		Soil	7/24/95	1112	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11323	19.0 to 20.5	CAN113 B32 1019		Soil	7/24/95	0908	1.4	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	19.0 to 20.5	CAN113 B32 0509	MRD	Soil	7/24/95	0908	1.4	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	24.0 to 26.0	CAN113 B32 1024		Soil	7/24/95	0940	1.4	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	24.0 to 26.0	CAN113 B32 4024		Soil	7/24/95	0940	1.4	Geotechnical Analyses
	35.0 to 36.3	CAN113 B32 1035		Soil	7/24/95	1015	1.7	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	35.0 to 36.3	CAN113 B32 050A	MRD	Soil	7/24/95	1015	1.7	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	45.0 to 47.0	CAN113 B32 1045		Soil	7/24/95	1113	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	54.0 to 55.1	CAN113 B32 1054		Soil	7/24/95	1148	1.7	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11324	24.0 to 26.0	CAN113 B32 1024		Soil	7/28/95	0855	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	29.0 to 29.8	CAN113 B32 1029		Soil	7/28/95	0917	550	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	40.0 to 42.0	CAN113 B32 1040		Soil	7/28/95	0950	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	50.0 to 50.8	CAN113 B32 1050		Soil	7/28/95	1023	3.2	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	58.0 to 58.4	CAN113 B32 4058		Soil	7/28/95	1110	0	Geotechnical Analyses
	59.0 to 60.0	CAN113 B32 1059		Soil	7/28/95	1130	0	AIX (VOC, SVOC, PCB/Pest, TAL Metals, PCDD/PCDFs), TRPH
11325	0.0 to 0.5	CAN113 B32 1000		Soil	7/23/95	0825	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	24.0 to 26.0	CAN113 B32 1024		Soil	7/23/95	1015	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	24.0 to 26.0	CAN113 B32 4024		Soil	7/23/95	1015	0	Geotechnical Analyses
	30.0 to 30.9	CAN113 B32 1030	MS/MSD	Soil	7/23/95	1036	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	40.0 to 42.0	CAN113 B32 1040		Soil	7/23/95	1112	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	50.0 to 50.5	CAN113 B32 1050		Soil	7/23/95	1152	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	60.0 to 62.0	CAN113 B32 1060		Soil	7/23/95	1303	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11326	21.5 to 23.0	CAN113 B32 1021		Soil	7/23/95	1244	1.7	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	21.5 to 23.0	CAN113 B32 0567	FD	Soil	7/23/95	1244	1.7	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	27.0 to 29.0	CAN113 B32 1027		Soil	7/23/95	1309	1.7	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	27.0 to 29.0	CAN113 B32 050B	MRD	Soil	7/23/95	1309	1.7	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	37.0 to 39.0	CAN113 B32 1037		Soil	7/23/95	1355	1.3	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	37.0 to 39.0	CAN113 B32 050C	MRD	Soil	7/23/95	1355	1.3	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	47.0 to 47.5	CAN113 B32 1047		Soil	7/23/95	1540	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	55.0 to 56.5	CAN113 B32 4055		Soil	7/23/95	1540	0	Geotechnical Analyses
	55.0 to 56.5	CAN113 B32 1055		Soil	7/23/95	1627	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH

TABLE 3-5

SUMMARY OF SURFACE SOIL, SUBSURFACE SOIL, AND QA/QC SAMPLES COLLECTED FOR CHEMICAL OR GEOTECHNICAL GRAIN SIZE ANALYSIS
Landfill No. 5 (SWMU No. 5/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING NUMBE	DEPTH INTERVAL (FT-BGS)	SAMPLE IDENTIFICATION NUMBER	QA/QC SAMPLES	SAMPLE MATRIX	DATE SAMPLED	TIME SAMPLE	PID ON SAMPLE (ppm)	ANALYTICAL PARAMETERS
11327	21.0 to 23.0	CAN113 B32 1021		Soil	7/22/95	1459	NR	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	21.0 to 23.0	CAN113 B32 050D	MRD	Soil	7/22/95	1459	NR	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	24.5 to 26.5	CAN113 B32 1024		Soil	7/22/95	1513	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	24.5 to 26.5	CAN113 B32 050E	MRD	Soil	7/22/95	1315	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	34.5 to 36.5	CAN113 B32 1034		Soil	7/22/95	1612	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	34.5 to 36.5	CAN113 B32 4034		Soil	7/22/95	1612	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	44.5 to 46.0	CAN113 B32 1044		Soil	7/22/95	1642	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	57.5 to 58.1	CAN113 B32 1057		Soil	7/22/95	1832	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH
11328	0.0 to 0.5	CAN113 B32 1000		Soil	7/22/95	0941	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	0.0 to 0.5	CAN113 B32 4000		Soil	7/22/95	0941	0	Geotechnical
	20.0 to 21.5	CAN113 B32 1020		Soil	7/22/95	1146	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	25.0 to 27.0	CAN113 B32 1025		Soil	7/22/95	1224	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	35.0 to 37.0	CAN113 B32 1035		Soil	7/22/95	1304	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	45.0 to 47.0	CAN113 B32 1045		Soil	7/22/95	1333	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	55.0 to 57.0	CAN113 B32 1055		Soil	7/22/95	1420	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11329	14.0 to 16.0	CAN113 B32 1014		Soil	7/21/95	1502	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB, TOC
	20.0 to 22.0	CAN113 B32 1020	MS/MSD	Soil	7/21/95	1518	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	30.0 to 32.0	CAN113 B32 1030		Soil	7/21/95	1541	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	40.0 to 42.0	CAN113 B32 1040		Soil	7/21/95	1605	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	50.0 to 51.8	CAN113 B32 1050		Soil	7/21/95	1638	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
	50.0 to 51.8	CAN113 B32 050F	MRD	Soil	7/21/95	1638	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
11330	14.5 to 16.5	CAN113 B33 1014		Soil	7/21/95	1725	0	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, HERB
	20.0 to 21.3	CAN113 B33 1020		Soil	7/21/95	1749	4	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	30.0 to 32.0	CAN113 B33 0568	FD	Soil	7/22/95	0820	1.3	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	30.0 to 32.0	CAN113 B33 1030		Soil	7/22/95	0820	1.3	VOC, SVOC, PCB/Pest, TAL Metals, TRPH
	40.0 to 42.0	CAN113 B33 1040		Soil	7/22/95	0856	1.3	VOC, SVOC, PCB/Pest, TAL Metals, TRPH, TOC
	50.0 to 52.0	CAN113 B33 1050		Soil	7/22/95	0916	0	AIX (VOC, SVOC, PCB/Pest, Metals), TRPH
	50.0 to 52.0	CAN113 B33 050G	MRD	Soil	7/22/95	0916	0	AIX (VOC, SVOC, PCB/Pest, Metals, PCDD/PCDFs), TRPH

Explanation of Sample Identification Number

* The last four digits of the sample identification number correspond to a certain sample. The first number in the four digit sequence identifies the type of sample collected (i.e. 1 = analytical, etc.), while the last three numbers correspond to the beginning depth of the sample interval.

** The last four digits of the QA/QC sample identification number correspond to a certain QA/QC sample. The first two numbers correspond to a particular SWMU (i.e. B3 = SWMU NO. 113, Landfill No. 5), the third number corresponds to the type of QA/QC sample (i.e. 6 = field duplicate, etc.), while the fourth number corresponds to the sequential number of a particular QA/QC sample type.

Explanation of QA/QC Samples

MS/MSD - Matrix Spike/Matrix Spike Duplicate
FD - Field Duplicate
MRD - QA/QC Sample sent to U.S. Army, Missouri River Division Laboratory
DECON - Sample of the water used for Decontamination

Explanation of PID on Sample (ppm)

Readings reported for volatile organics using an Photo Ionization Detector (PID).
NR - PID measurement was not reported.

Explanation of Analytical Parameters

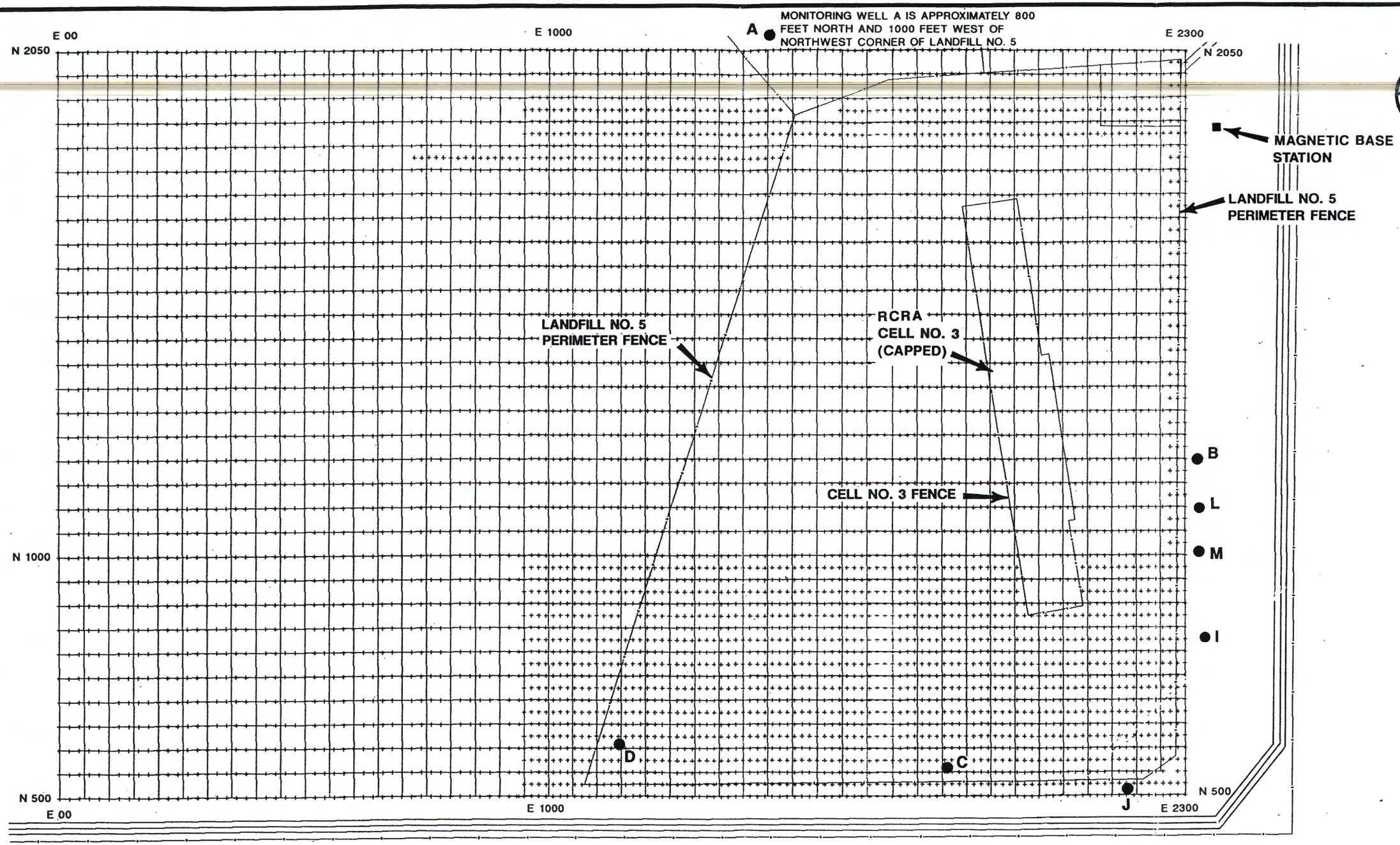
VOC - Volatiles
SVOC - Semi-volatiles
PCB/Pest - Pesticide/PCBs
TAL Metals - Target Analyte List Metals
TRPH - Total Recoverable Petroleum Hydrocarbon
HERB - Herbicides
TOC - Total Organic Carbon
PCDD/PCDFs - Dioxin/Furans

TABLE 3-6

LABORATORY GRADATIONAL ANALYSIS COMPARED TO FIELD USC CLASSIFICATION
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Boring No.	Sample I.D.	Depth (feet) bgs	Laboratory USC Designation	Field USC Classification Designation
11301	CAN113-B301-4034	34-36	SM	SM
11304	CAN113-B304-4045	45-47	SM	SM
11311	CAN113-B311-4045	45-47	SM	SM
11313	CAN113-B313-4040	40-42	SM	SM
11321	CAN113-B321-4057	57-58.8	SM	SM
11324	CAN113-B324-4058	58-58.4	SM	SM
11325	CAN113-B325-4024	24-26	SM	SM
11326	CAN113-B326-4055	55-56.5	SM	SM
11327	CAN113-B327-4034	34.5-36.5	SC-SM	SM
11308	CAN113-B308-4020	20-22	SC	SM
11314	CAN113-B314-4067	67-68.5	SM	SP
11317	CAN113-B317-4045	45-46.9	SM	SP
11323	CAN113-B323-4024	24-26	SC	SM
11328	CAN113-B328-4000	Surface Sample	CL	ML
11303	CAN113-B303-4023	23-25	CL-SC	SP
11309	CAN113-B309-4025	25-26.5	CL	SW

bgs - below ground surface
SC - Clayey sands
SM - Silty sand
CL - Inorganic clays
ML - Inorganic silts
SP - Poorly graded sands, little to no fines
SW - Well-graded sands, little to no fines



LEGEND

- ● MONITORING WELL
- + GEOPHYSICAL STATION
- APPROXIMATE LOCATION OF ROAD
- FENCE

0 100 200 400
SCALE IN FEET

N 500, E 00 – FIELD GRID COORDINATE

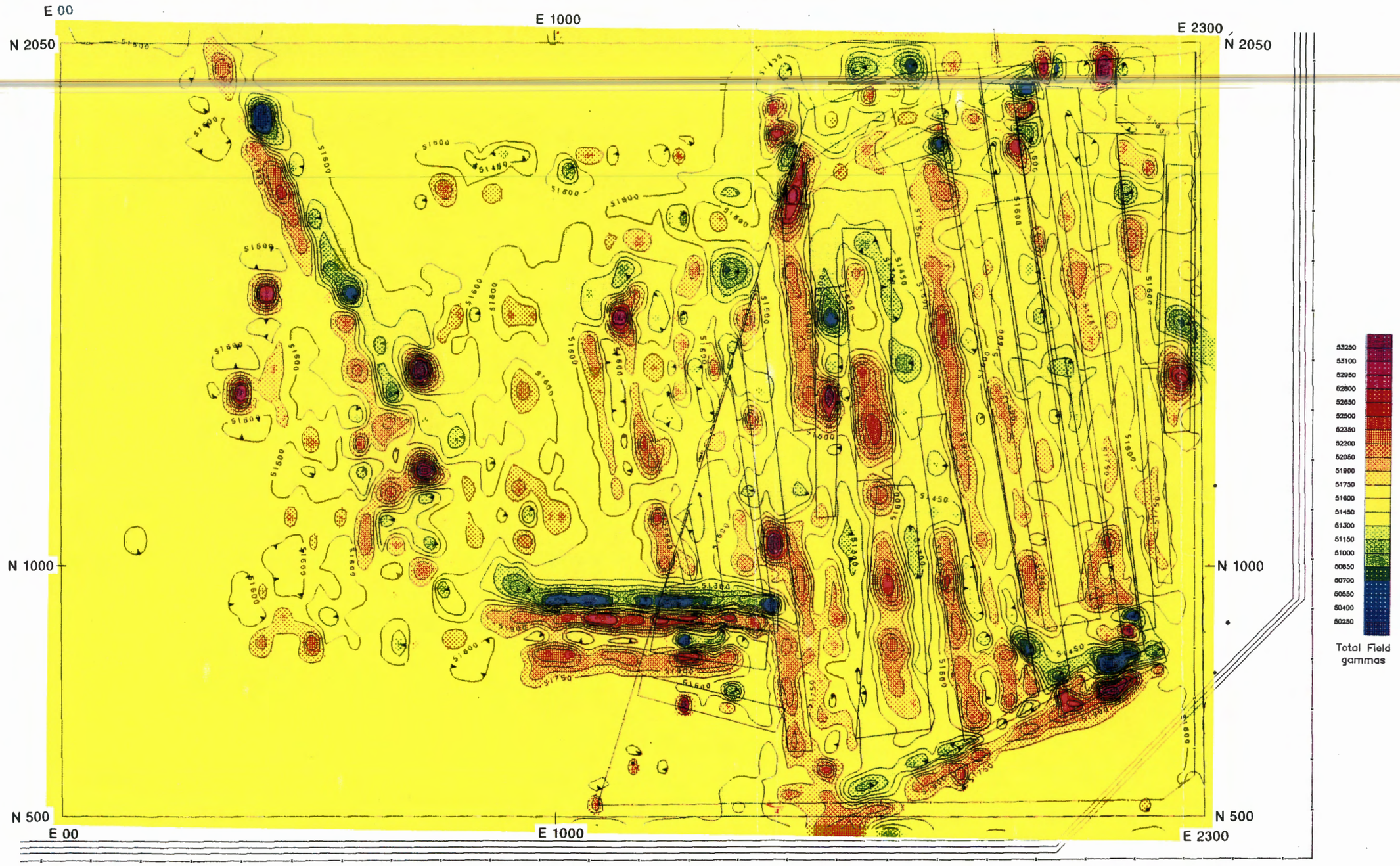
Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	10/25/95

GEOPHYSICAL STATION LOCATION MAP

LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

T2C9

FIG. 3-1



LEGEND

- MONITORING WELL
- APPROXIMATE LOCATION
- FENCE
- REPORTED LANDFILL CELL BOUNDARIES PREVIOUSLY MAPPED BY CANNON AFB

0 100 200 400

SCALE IN FEET

CONTOUR INTERVAL = 150 gammas

Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	10/25/95

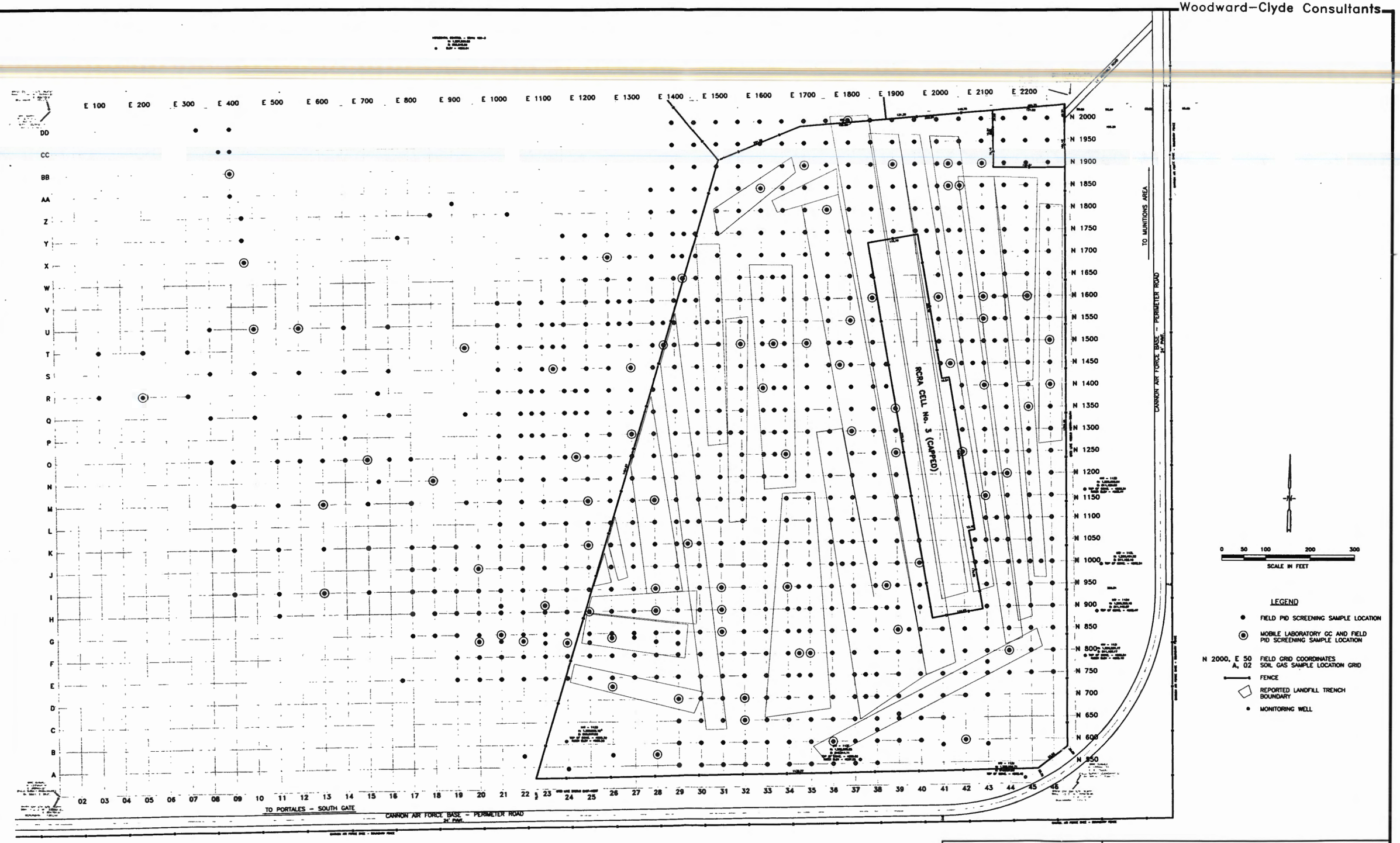
COMPARISON OF TOTAL MAGNETIC FIELD RESULTS TO PREVIOUSLY MAPPED LANDFILL CELL BOUNDARIES

LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

T2C10

FIG. 3-2

Woodward–Clyde Consultants

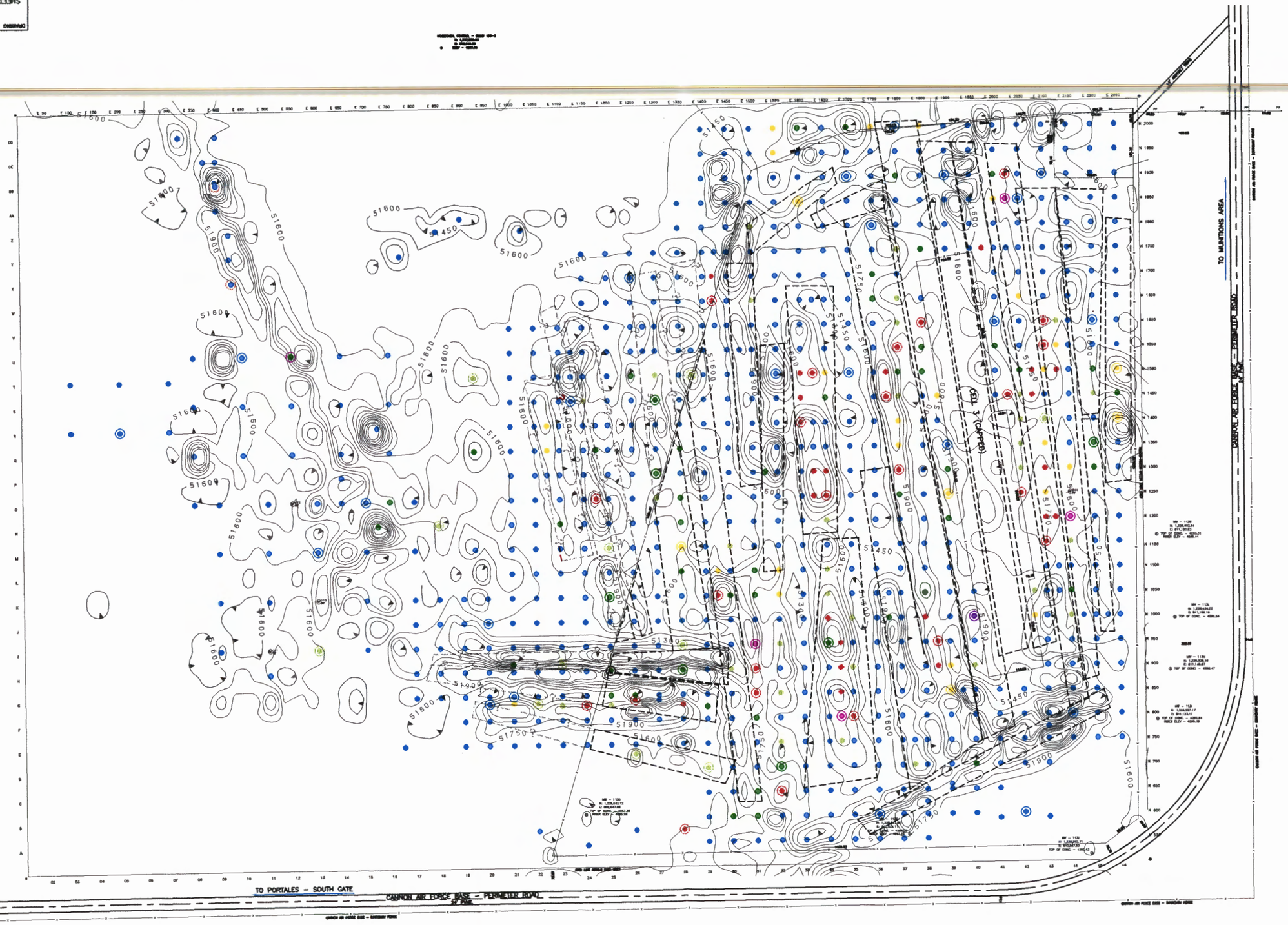


Job No. :	C3M11M
Prepared by :	GLW/JTA
Date :	10/25/95

SOIL GAS SURVEY
SAMPLE LOCATION MAP
LANDFILL NO. 5
(SWMU NO. 113/IRP NO. LF-5)

FIG. 3-3

3M11FGB8



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WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	GLW/JTA
DRAWN	PFL
CHECKED	
PEER REVIEWED	
PROJECT MANAGER	
DATE	

CANNON AFB NEW MEXICO

COMPARISON OF SOIL GAS SURVEY FIELD PID RESULTS TO GEOPHYSICAL SURVEY TOTAL FIELD MAGNETIC RESULTS LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)

REVISION △
PROJECT C3M11M
DRAWING 3-4
SHEET OF

FILE # 2MUFGR5 | SCALE 1"=100' | DATE | PFL | PROJ. # C3M3M | TASK # E9 | LOC. PROJ. CANNON AFB | SEND TO | PHONE

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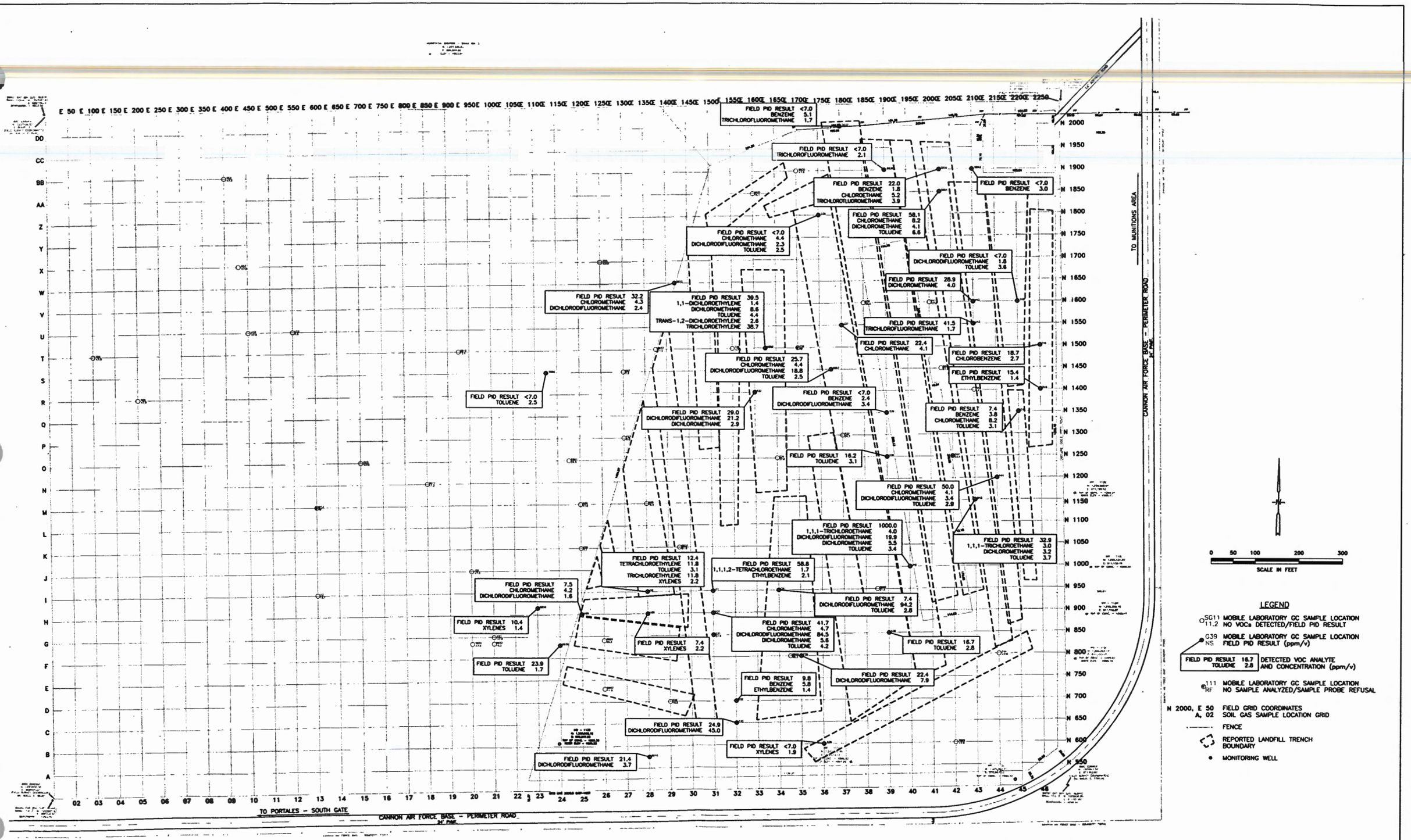

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DATE	4/19/95

CANNON AFB NEW MEXICO

SOIL GAS SURVEY
MOBILE LABORATORY GC RESULTS
LANDFILL NO. 5
(SWMU NO. 113/IRP NO. LF-5)

REVISION △

PROJECT C3M11M

DRAWING 3-5

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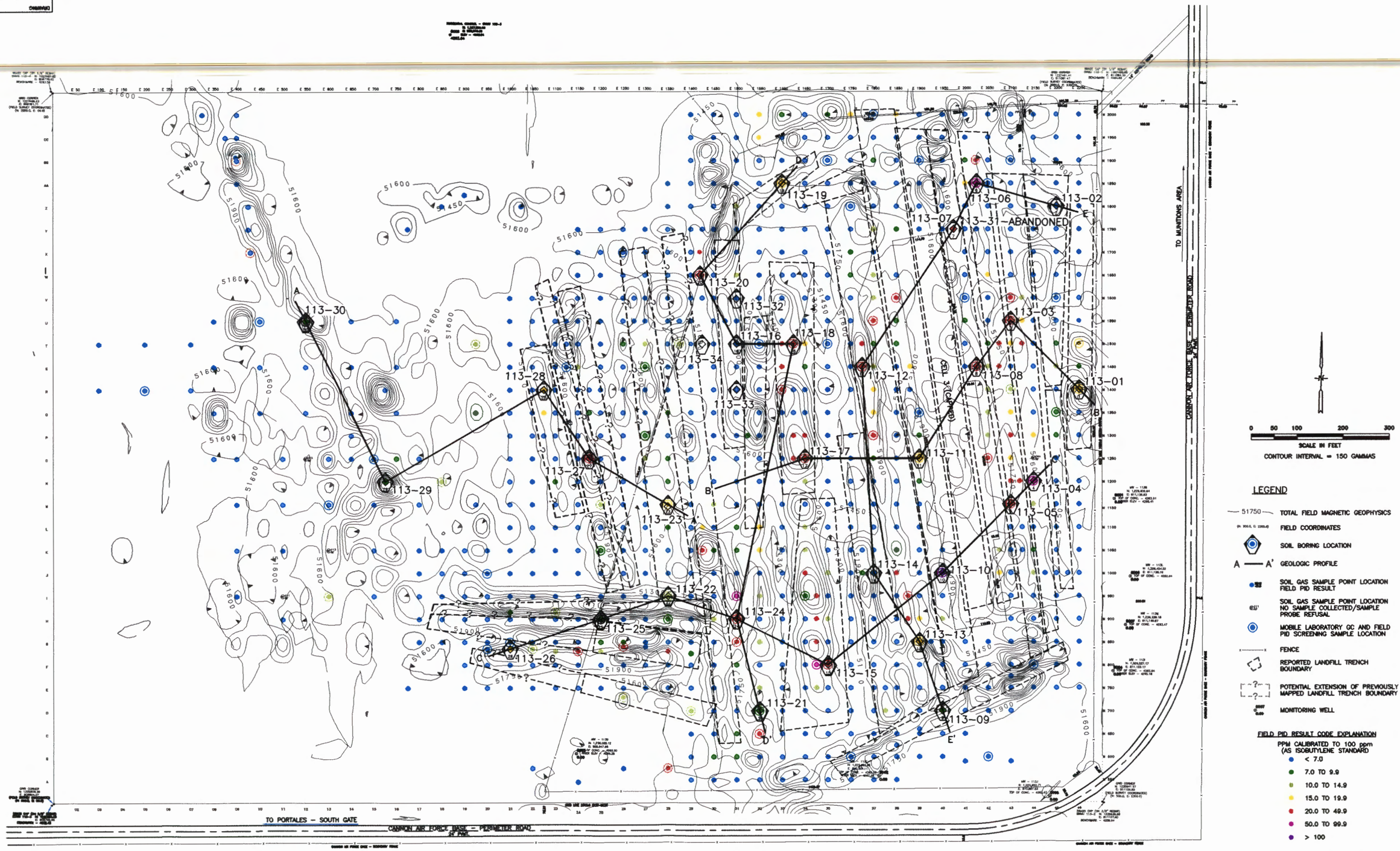

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CANNON AFB NEW MEXICO

SOIL BORING LOCATIONS
LANDFILL NO. 5
(SWMU NO. 113/IRP NO. LF-5)

REVISION △
PROJECT C3M11M
DRAWING 3-6
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4.0
NATURE AND EXTENT OF CONTAMINATION

4.1 INTRODUCTION

This section describes the nature and extent of contamination found in surface and subsurface soil at Landfill No. 5 based on the validated chemical data results obtained from the Phase I RFI. Section 4.2 discusses the quality assurance procedures related to field and laboratory data including specific types of QA/QC activities, required QA/QC activities as presented in the DCQAP and data validation. Section 4.3 discusses the nature and extent of the following: commonly occurring elements (calcium, potassium and sodium) in surface and subsurface soil above regional and site-specific background ranges; metals concentrations detected above the maximum established background at Cannon AFB; SVOCs; VOCs; pesticide/PCBs; TRPH; cyanide; herbicides; dioxin and furan contamination, if any, at Landfill No. 5. In addition, tentatively identified compounds (TICs) identified by the laboratory are also addressed.

4.2 QUALITY ASSURANCE/QUALITY CONTROL OF DATA

This section summarizes quality assurance procedures related to field and laboratory data and the results of quality control samples taken during the Phase I RFI at Landfill No. 5. Appendix E contains the validated analytical results for the samples collected as part of this project. The detailed data validation report is provided as Appendix F.

Details of the data quality objectives are discussed in the DCQAP. The analytical procedures utilized for the samples collected from Landfill No. 5 are summarized in Table 6-1 of the DCQAP. QA/QC measures were followed throughout the analytical program as part of the method and DCQAP requirements, as discussed below in Sections 4.2.1 and 4.2.2.

As set forth in the DCQAP for the Phase I RFI at Landfill No. 5, data quality objectives for quantifiable analytical data are expressed in terms of accuracy, precision, completeness, comparability, and representativeness. Brief definitions of these terms follow:

Accuracy is a measure of the bias in a system. Accuracy is the degree of agreement of a measurement or series of measurements with the accepted reference or true value. The exact bias of a system will never be known since the true values are not accessible; however, inferences can be drawn from the results of blank samples taken in the field, of method blanks, and spiked sample analyses prepared in the laboratory. Control values for accuracy for each type of analytical measurement are defined in the DCQAP.

Precision is a measure of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. Replicate samples are expected to contain identical contaminant concentrations; therefore, any variability in results must be due to variability introduced by sampling (or heterogeneity of sample media), handling, or laboratory procedures. Control values for precision for each type of analytical measurement are defined in the DCQAP.

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount that could be obtained under optimum conditions. Amounts of data to be collected are defined in the DCQAP, which sets the analytical completeness goal for the analytical program at 90 percent.

Comparability expresses the confidence with which one data set can be compared with another. Qualitatively, data subjected to the strict QA/QC procedures will be deemed more reliable, and therefore more comparable, than other data. The SOPs describe the sampling and reporting procedures that were followed in order to produce comparable data.

Representativeness is the degree to which a set of data accurately represents the characteristics of a population, a process condition, or an environmental condition. Data are usually considered representative if the sample distribution is within statistically defined bounds of the population mean and variance. Representativeness depends on the sample media and the area being studied.

4.2.1 Specific Types of QA/QC Activities

Specific QA activities required by the DCQAP included the following:

- Laboratory systems and performance audits
- Adherence to required analytical and reporting procedures as described in the DCQAP, and documentation of all laboratory procedures
- Proper storage and archiving of all data

Specific QC samples included the following:

- Laboratory QC samples for soils
  - Matrix spike/matrix spike duplicate (MS/MSD)analyses (matrix spike/duplicate analyses for metals) from field samples, with the exception of polychlorinated dibenzodioxins and polychlorinated dibenzofurans (PCDDs/PCDFs)
  - Method blanks
  - Laboratory control samples

- Field QC samples for soils
  - Decontamination water blank
  - Field Duplicate samples

- Laboratory QC samples for decontamination water blank
  - Method blanks
  - Laboratory control samples

- Sample Splits for soils
  - Ten percent of the soils samples were sent to the USACE Missouri River Division laboratory for confirmation analysis

4.2.1.1 Method or Preparation Blank

Method blanks consisted either of deionized water for water analysis or Ottawa sand for analysis of solids. Method blanks were carried through each step of the analytical method. The method blank data were used to evaluate contamination attributable to laboratory operations during analysis.

4.2.1.2 Surrogate Spikes

Surrogate spikes were compounds added to every blank, sample, MS, MSD, and standard when specified in the analytical methodology. The results were utilized to evaluate the accuracy of analytical measurement on a sample-specific basis. Surrogates are generally brominated, fluorinated, or isotopically labeled compounds not expected to be detected in environmental media. Results were expressed as percent recovery (% R) of the surrogate spike. Recoveries outside of control criteria are evidence of inaccurate results which may be related to matrix interference.

4.2.1.3 Internal Standards

Internal standards were compounds added to every blank, sample (or sample extract), and standard for Methods 8240, 8270, and 8280. For volatile organic analyses and semivolatile analyses by Methods 8240 and 8270, respectively, internal standards are compounds not typically found in the natural environment that are used as the basis to quantitate the target compounds. For PCDDs/PCDFs by Method 8280, internal standards are ^{13}C-isotopically labeled PCDDs/PCDFs used to quantitate sample concentrations, to evaluate extraction efficiency, and to evaluate stability of gas chromatography/mass spectrometry sensitivity and response throughout the analytical run.

4.2.1.4 Matrix Spike/Matrix Spike Duplicate Samples and Matrix Spike/Duplicate Samples

MS/MSD samples were analyzed for VOCs, SVOCs, pesticides/PCBs, organophosphorus pesticides, herbicides, TRPH, TOC and cyanide and sulfide. Matrix Spike/Duplicate (MS/D) samples were reported for the metals analyses.

MS/MSD samples are environmental samples to which known quantities of target analytes are added. The MS/MSD are taken through the entire analytical procedure and the recovery of the analytes is recorded. The sample MS/MSD are processed separately but in an identical fashion. The results are expressed as a percent recovery for analytes added to the MS/MSD, and as relative percent differences (RPD) between the MS/MSD. The results were used to evaluate the effect of the sample matrix on the accuracy and precision of the laboratory analysis.

For the metals analyses results, MS/D analyses were generally reported. The MS analyses are described above, and the percent recoveries provide a measure of the accuracy of the analysis. The laboratory duplicate is a split of an environmental sample, which is prepared and analyzed in a manner identical to that of the original sample. The results were utilized to evaluate the precision of the laboratory analyses. Results are expressed in RPD between the analytical split and the original sample.

4.2.1.5 Laboratory Control Samples

Laboratory control samples (LCS) were well-characterized, laboratory-generated samples used to monitor the laboratory's day-to-day performance of analytical methods. LCS were used to monitor the precision and accuracy of the analytical process independent of matrix effects.

Two types of LCS were analyzed, duplicate control samples (DCS) and single control samples (SCS). The requirement to analyze one or both of DCS and SCS was specific to each analytical method. For the DCS, known quantities of the MS/MSD spiking analytes were added to a sample of Ottawa sand; and for the SCS, known quantities of surrogate spiking compounds were added to a sample of Ottawa sand.

The results of the LCS were compared to well-defined evaluation criteria to determine whether the laboratory system is "in control." LCS analysis results provides information used to differentiate low recoveries due to procedural errors from those due to matrix effects.

4.2.1.6 Analytical Spike

An analytical spike was performed and utilized in the graphite furnace atomic absorption (GFAA) analyses. Analytical spikes were post-digestion spikes prepared prior to analysis by adding a known quantity of the analyte to an aliquot of the digested sample. Both the unspiked and spiked samples were analyzed in identical fashion. Analytical spike recoveries on each sample were utilized to evaluate accuracy of the analysis on the given sample and to determine whether or not the sample must be reanalyzed at a dilution.

4.2.1.7 Field Duplicates

Field duplicate soil samples were collected at a frequency of 1 per 20 environmental samples. Co-located field duplicates were collected for the volatile organics analyses; homogenized field duplicate samples were collected for all other analytical methods. The agreement between the sample analytical results for the environmental sample and the field duplicate were expressed as RPD and were evaluated in accordance with the criteria described in SOP No. 10, Data Validation and QC Review of Analytical Laboratory Data Packages, contained in the DCQAP. Evaluation of the environmental sample and field duplicate results provides a means of assessing the precision of field sampling and laboratory analysis.

4.2.1.8 Decontamination Water Blank

A sample of the water used for decontamination procedures was collected and analyzed to verify that no contamination was introduced to the samples by the decontamination water. The decontamination water was analyzed for VOCs, SVOCs, pesticides/PCBs, organophosphorus pesticides, herbicides, metals, and cyanide.

4.2.1.9 Sample Splits

A total of 16 environmental sample splits, equivalent to approximately ten percent of the total samples collected, were sent to the USACE MRD laboratory for confirmation analysis.

4.2.2 Results of DCQAP-Required Activities

4.2.2.1 Field Audits

An audit of field activities was conducted on July 26, 1995 by the site manager. Field activities audited included soil sample collection procedures, equipment decontamination, field documentation, sample handling and labeling, and field screening. No significant problems or deficiencies were observed during the audit that were considered to affect data quality. A field audit checklist was completed as part of this audit, and a memorandum summarizing the audit results was prepared by the Site Manager. Both documents were submitted to the W-C Quality Control Officer and the Project Manager. The field audit was conducted in accordance with requirements in the DCQAP of the Work Plan, and audit checklists and memoranda summarizing these audits are stored in W-C's Cannon AFB Landfill No. 5 project files.

4.2.2.2 Laboratory Audits

No project specific laboratory audits were conducted as part of this investigation. The analytical laboratories used for this project (Quanterra Environmental Services' Denver and West Sacramento laboratories) have been audited by W-C within the last three years and both hold current USACE certifications.

4.2.3 Data Validation

Analytical data quality for soil samples collected during the Phase I RFI at Landfill No. 5, Cannon Air Force Base (July 17, 1995 through to August 1, 1995) is discussed in this section. A total of 150 soil samples from 30 boreholes, 10 surface soil samples and 1 decontamination water sample were submitted to Quanterra Environmental Services, Denver, Colorado

(Quanterra) for analysis. The analysis and reporting of the laboratory results follow the requirements described in the DCQAP.

In accordance with Section 6.0 of the DCQAP, a full validation was performed on 10 percent of the analytical data and a QC Review was performed on the remaining 90 percent of the data. The data validation and QC reviews were performed in accordance with SOP No. 10 , "Data Validation and QC Review of Analytical Laboratory Data Packages." QA/QC parameters assessed during the validation process were in accordance with Section 2.0 of the DCQAP "Quality Assurance of Data Quality Objectives and Audit Procedures." Systematic problems identified during the full validation were also evaluated during the QC reviews. The results of the full validation and the QC reviews are summarized in the sections below. The validated analytical results are presented in Appendix E, and complete data validation and QC review reports are presented in Appendix F.

The analytical data were reported by the laboratory in 14 data packages. Three data packages contained results for the PCDD/PCDF analyses and each of the remaining data packages contained analytical results for analyses other than PCDDs/PCDFs. A full validation was performed on greater than 10 percent of the PCDD/PCDF data (package #043634) and on greater than 10 percent of the analytical data for the other parameters (package #043617). A QC Review was performed on the remaining data packages. The sections below present a summary of the data validation and QC reviews for:

- Organics (VOCs, SVOCs, pesticide/PCBs, organophosphorus pesticides, chlorinated herbicides and TRPH)
- Metals
- PCDDs/PCDFs
- Other analytes (total organic carbon, cyanide and sulfide)

The summaries discuss the following items:

- Criteria that were evaluated as part of the data validation and QC review process
- Problems identified by the data validation and QC review
- Data qualification resulting from the data validation and QC review

Precision of the analyses for each sample matrix was evaluated by calculating the RPD from the MS/MSD (environmental sample/laboratory duplicate for metals) results. During the data review process, some minor differences between the RPDs calculated during the data review and those reported by the laboratory were identified. This occurred because the laboratory calculates the RPD before rounding the percent recoveries, but reports the rounded percent recoveries on the hard copy data sheets which were used by the data reviewer to recalculate RPDs. No significant differences were observed, and the minor differences were not considered to affect the quality of the data.

4.2.3.1 Organic Analyses (VOCs, SVOCs, Pesticide/PCBs, OPP, Herbicides, TRPH)

Holding Times

Allowable holding times for extractions and/or analyses for VOCs, SVOCs, pesticide/PCBs, organophosphorus pesticides (OPPs), chlorinated herbicides and TRPH are presented in the DCQAP. The analytical data for all data packages were reviewed to evaluate whether the holding time requirements were met for each method.

Two samples analyzed for SVOCs were re-extracted and re-analyzed due to low surrogate recoveries reported from the initial analysis. For both samples, the re-extractions were conducted outside holding time limits, and all associated sample data for these two samples were qualified as estimated (UJ). For the chlorinate herbicide analyses, the extraction holding time was exceeded by four days for two samples, and therefore all chlorinated herbicide results for these two samples were qualified as estimated.

All other extractions and analyses were conducted within holding times, and no other data were qualified on the basis of holding times.

GC/MS Instrument Performance

GC/MS instrument performance checks for the VOC and SVOC analyses were evaluated as part of the full validation to ensure mass resolution, identification, and instrument sensitivity.

Criteria for instrument performance checks included evaluation of possible transcription or calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. All criteria for the VOC and SVOC analyses were met and no qualification of the data was necessary.

GC Instrument Performance

GC Instrument performance was evaluated as part of the full validation for the pesticide/PCB, OPP, chlorinated herbicide and TRPH analyses and was considered to be satisfactory

Initial and Continuing Calibrations

Initial and continuing calibration criteria were evaluated as part of the full validation to ensure the instrument is capable of producing acceptable qualitative and quantitative data. All initial and continuing calibrations were analyzed at the required frequency. All relative response factors for initial and continuing calibrations and percent relative standard deviations (%RSD) for initial calibrations met the acceptance criteria with the exceptions noted below.

The % RSDs for several analytes were reported above the 30 percent criterion. In accordance with validation protocols the associated data were qualified as estimated (J/UJ). The percent differences (%D) between the initial and continuing calibrations were above the 25 percent criterion for several target compounds and associated sample data were qualified as estimated.

The minimum relative response factors (RRF) criterion of 0.05 was met for all analytes with the exception of 1,4-dioxane, acetonitrile, and isobutanol. The RRF for 1,4-dioxane was less than 0.05 in all of the associated initial and continuing calibrations, and the RRFs for acetonitrile and isobutanol were less than 0.05 in one initial calibration and three continuing calibrations associated with the analysis of samples for the Appendix IX analytes. As the RRF is a measure of instrument sensitivity and not accuracy or bias, a low value for the RRF indicates lower instrument sensitivity and hence an elevated detection limit. The minimum RRF criterion of 0.05 recommended in Functional Guidelines is applicable to the CLP analytes for which a RRF > 0.05 is a reasonable criterion. Several of the Appendix IX analytes (1,4-dioxane, acetonitrile, isobutanol) typically have a lower response than the contract laboratory program (CLP)

analytes. In order to take into account the lower sensitivity of the analytical method to these analytes, the laboratory has raised the reporting limits to a concentration at which they can reliably measure these analytes. An evaluation of the response to the low concentration standards for these analytes in the initial calibration indicates that the response per unit area of the peak is consistent with the higher concentration standards. In addition, the analyte peak in the total ion chromatogram is significantly above the instrument noise level and can be adequately detected at concentrations at or below the concentration of the low standard. As such, although the RRFs for 1,4-dioxane, acetonitrile, and isobutanol were less than 0.05, it was the judgment of the data reviewer that the instrument was capable of quantitating 1,4-dioxane, acetonitrile, and isobutanol at the elevated reporting limit and, therefore, no qualification or rejection of the data for these analytes based on the RRF was considered necessary.

In several instances, the instrument sensitivity for 1,4-dioxane, acetonitrile, and isobutanol decreased from the initial to the continuing calibration. In several cases the RRFs for these analytes did not meet the minimum RRF of less than 0.05 and the %D between the initial and continuing calibration exceeded the criterion of 25 percent. It was the judgment of the data reviewer that the reporting limits did not sufficiently reflect the decrease in sensitivity of the analytical method for these analytes and, therefore, the reporting limits were raised proportionately to the decrease in sensitivity and qualified as estimated.

The %RSDs between the initial calibration and continuing calibrations on one of the GC/MS instruments (Instrument N) for the Appendix IX analytes ranged from -16,971 percent (1,2-dibromo-3-chloropropane) to +33 percent (alkyl chloride). The RRFs for the Appendix IX analytes in the initial calibration were significantly lower than those in the continuing calibration (CCAL) and significantly lower than the RRFs for these analytes from the other instruments used for analysis. It was the judgment of the data reviewer that the low RRFs in the initial calibration were due to an instrument problem on that analysis only and that the RRFs from the continuing calibrations for this instrument are more representative of the sensitivity of the analytical method to these analytes. The extremely low instrument sensitivity exhibited in the initial calibration for 1,2-Dibromo-3-chloropropane (DBCP) for instrument N has resulted in an undetermined bias in the reported results and, therefore, the DBCP results in associated samples were qualified as unusable (R). As the RRFs for the remaining Appendix IX analytes listed above were greater than 0.05, it was the judgment of the data reviewer that

the instrument sensitivity was sufficient to quantitate these analytes at the reporting limits and, therefore, no changes in the reporting limits for these analytes were considered necessary. The non-detect results reported for these analytes in sample CAN113-B321-1057 were qualified as estimated (UJ) due to the % difference (%D) exceedances.

Based on the problems noted above for the initial and continuing calibrations for the Appendix IX VOC analyses in the full validation, the calibration data for the Appendix IX VOCs were reviewed in the QC reviews and data qualified as discussed above.

For the SVOC analyses, the initial and continuing calibration data were evaluated as part of the full validation. RRFs and % RSDs for initial calibrations associated with the soils analyses were within acceptance limits and no qualification of data on the basis of initial calibrations was necessary. For the continuing calibration data, all RRFs met the acceptance criterion (RRF greater than 0.05). The %Ds between the initial and continuing calibration were above the 25 percent criterion for ten compounds. In accordance with validation protocols, associated sample data were qualified as estimated.

For the pesticide/PCB analyses, the initial and continuing calibration data were evaluated as part of the full validation. For the single-component analytes, the laboratory analyzed the initial calibration data with a $1/x^2$ weighted linear regression, not forced through the origin. For all analytes tested during the data validation process, the correlation coefficients obtained for linear regressions were greater than 0.995, indicating sufficient linearity of instrument response. For several continuing calibrations, the %Ds between the true concentrations of analytes present and the measured concentrations for one or more analytes exceeded the laboratory's acceptance limit of 15 percent (this control limit is analogous to the Method 8080 requirement that the %D between the average calibration factor determined from the initial calibration and the calibration factor determined from the continuing calibration be less than 15 percent and was therefore considered to be appropriate). In all cases, the measured concentrations were greater than the true concentrations indicating a potential high bias in the reported sample results. As all associated sample results were reported as nondetect, data qualification was not considered to be necessary. The analytical sequence was found to be satisfactory.

Initial and continuing calibrations for OPP and herbicides were evaluated as part of the full validation. The correlation coefficients were greater than 0.995, indicating sufficient linearity of instrument response. Continuing calibration frequency and results were acceptable. No data qualification was issued on the basis of initial or continuing calibration.

Method Blanks

Method blank contamination was evaluated in all of the data packages. All of the target analytes detected in the method blanks associated with the VOC and SVOC analyses are common laboratory contaminants and, therefore, may potentially be due to laboratory contamination. Methylene chloride was reported as detected in seven method blanks, 2-butanone in three, and acetone in one of the 19 method blanks associated with the VOC analyses in all data packages. Diethyl phthalate was reported as detected in three SVOC method blanks and di-N-butyl phthalate and bis(2-ethylhexyl)phthalate were each reported as detected in one of the 17 method blanks associated with the SVOC analyses. Since these analytes are common laboratory contaminants, sample results were qualified as non-detect if the results were less than 10 times the amount detected in the associated blanks. Where the sample result was greater than the reporting limit but less than 10 times the amount detected in the associated blank, the reporting limit was raised to the sample result and qualified as non-detect.

No target analytes were reported as detected in the method blanks associated with the pesticide/PCB, organophosphorus pesticide, chlorinated herbicides, and TRPH analyses.

Surrogate Recovery

Surrogate recovery data were evaluated for all of the data packages and compared against the QC limits provided in the DCQAP.

VOC surrogate recoveries were within acceptance criteria for all soil samples with the exception of 1,2-dichloroethane-d4 in three samples. The percent recoveries (%Rs) for 1,2-dichloroethane-d4 in these samples were slightly above the upper acceptance limit indicating a potential high bias. However, as the results for these samples were reported as non-detect and

as the surrogate recoveries indicate a potential high bias, no qualification of the VOC data for soil was necessary.

The %R for the toluene-d8 surrogate was reported below the lower acceptance limit for the decontamination water sample, indicating a potential low bias. This sample was re-analyzed and a similar %R for the toluene-d8 surrogate was obtained. In accordance with the validation protocols, the results for the decontamination water sample have been qualified on the basis of the low recovery of toluene-d8.

Two soil samples were re-analyzed for SVOCs due to low surrogate recoveries in the initial analyses. Surrogate recoveries for the re-analyses were within acceptance limits and data qualification was not required. Surrogate recoveries for all other soil sample analyses and for the decontamination water analysis were within acceptance limits.

Three pesticide/PCB surrogate compounds were spiked into every field and QC sample prior to extraction. The surrogate compound Dibutylchlorendate (DBC) is the surrogate compound specified by the analytical method (SW-846 Method 8080). The surrogate compounds Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX) are the surrogate compounds specified by the Contract Laboratory Program methodology.

The surrogate recoveries for DBC were compared to the QC limits contained in the DCQAP. The recoveries of DCB and TCX were compared to the same limits used for DBC limits since the DCQAP contained QC limits for DBC only. Recoveries for all three surrogate compounds in all samples were within the applicable evaluation criteria indicating that satisfactory laboratory performance with respect to the individual samples was attained.

With the exception of the organophosphorus pesticide surrogate recoveries for one soil sample, all surrogate recoveries were within QC limits. The surrogate recoveries for this sample were below the lower QC limits (39 and 41 percent) indicating a potential low bias. Consequently, all results for this sample were qualified as estimated.

All surrogate recoveries for the chlorinated herbicide analyses were within QC limits and no qualification of the chlorinated herbicide results on the basis of surrogates was necessary.

Matrix Spike/Matrix Spike Duplicate

MS/MSD results were evaluated in all of the data packages. All VOC, pesticide/PCB, OPP, chlorinated herbicide, and TRPH MS/MSD percent recoveries and RPDs were within QC limits indicating satisfactory accuracy and precision with respect to the sample matrix.

For the SVOC analyses, two MS/MSD analyses did not meet QC limits for all the target compounds. However, as all surrogate recoveries in the associated samples and the associated SCS and DCS recoveries and RPDs were within QC limits, no qualification of associated data was considered necessary.

Laboratory Control Samples

The laboratory control sample data were evaluated in all of the data packages. The %Rs and RPDs for the DCS and SCS associated with all VOCs, SVOCs, and chlorinated herbicide analyses were within acceptance limits indicating satisfactory accuracy and precision of the analytical methods.

For the pesticide/PCB analyses, the RPDs between the DCS1 and DCS2 results for six analytes for the DCS sample set associated with QC Lot number 10 AUG 95-N3 were outside the acceptance limits (gamma-BHC, 21 percent; heptachlor, 24 percent; aldrin (24 percent); dieldrin (12 percent); endrin (17 percent); and 4,4'-DDT, (14 percent)). Data qualification was not considered necessary, however, because all DCS spike recoveries and all other QC results including MS/MSD precision for samples associated with this DCS set were acceptable, and all associated sample results were nondetect. For the pesticide/PCB DCS sample set associated with QC Lot number 07 AUG 95-S1, the average percent recovery for gamma-BHC (77 percent) was outside the lower acceptance limit indicating a potential low bias. The gamma-BHC results for samples associated with this DCS sample set were qualified as estimated due to the potential low bias.

With the exception of one spike recovery, all SCS and DCS results for the OPP analyses were within acceptance limits indicating satisfactory accuracy and precision with respect to the analytical method. The recovery of ethyl pirimifos, a surrogate compound, in one of the SCSs

was 25 percent, outside the lower acceptance limit. Data qualification was not considered necessary, however, because the surrogate recoveries for all samples associated with this SCS were within acceptance limits.

Field Duplicate Evaluation

Field duplicate results were evaluated in all of the data packages. With the exception of the field duplicates collected for VOCs, all field duplicate samples were homogenized. The field duplicates collected for analysis of VOCs were co-located.

All the field duplicate pairs analyzed for VOCs were within QC limits, with the exception of acetone for the field duplicate pair CAN113-B326-0567/1021. Sample data associated with the field duplicate pair CAN113-B326-0567/1021 have been qualified as estimated (UJ/J). No other qualification of volatile organics data on the basis of field duplicate analyses was necessary.

The results for SVOCs, pesticide/PCBs, OPPs, chlorinated herbicides and TRPH reported for the field duplicate pairs were within the DCQAP QC limits indicating acceptable precision, and no qualification of data for these parameters on the basis of field duplicate analyses was necessary.

Internal Standard Performance

Internal standard performance data for VOCs and SVOCs were evaluated as part of the full data validation. Internal standard areas and retention times for the samples were within the acceptance criteria and no VOC or SVOC results were qualified or rejected on the basis of poor internal standard recoveries.

Target Compound Identification

Target Compound Identification was evaluated as part of the full data validation. For the VOC and SVOC analyses, the relative retention times (RRTs) and mass spectra for the sample compounds were reviewed and met the identification criteria. For the GC analyses of

pesticide/PCBs, chlorinated herbicides, OPPs and TRPH, all positively identified compounds (detected only in QC samples for organochlorine pesticides, OPPs and chlorinated herbicides) were confirmed as present on a chemically dissimilar column. No errors were found in compound identification and no results were qualified on this basis.

Quantitation and Reported Detection Limits

Quantitation and detection limits were evaluated as part of the full validation. Data for one or more detected target analytes for 10 percent of the samples were recalculated from the raw data. Values which were recalculated agreed with the reported values. Reporting limits were properly adjusted for sample dilutions and the soil sample results were reported on a dry weight basis.

Recalculation of a percentage of the reporting limits during the full validation indicated that reporting limits for the soil samples were correctly reported on a dry weight basis and no calculation errors were found.

Data were also checked in both the full validation and the QC reviews to verify that the laboratory qualified results reported as detected below the reporting limits as estimated (J). No errors were found.

System Performance

The overall system performance was evaluated as part of the full validation. System performance was considered satisfactory for all methods.

4.2.3.2 Inorganics (Metals)

Holding Times

Holding time criteria were reviewed as part of both the full validation and the QC reviews. Allowable holding times are presented in the DCQAP. All analyses were conducted within holding times, and no qualification of data was required.

Calibration

Initial and continuing calibration criteria were reviewed as part of the full validation to evaluate whether the instrument is capable of producing acceptable qualitative and quantitative data. All initial and continuing calibrations were analyzed at the required frequency. All initial and continuing calibration criteria were met with the following exception. The correlation coefficient for the linear regression for thallium in the initial calibration was below 0.995. Data qualification was not considered to be necessary, however, because the instrument uses an internal algorithm to calculate results from the calibration curve, not a linear calibration line.

Preparation, Initial Calibration and Continuing Calibration Blanks

Blank data were reviewed as part of both the full validation and the QC reviews. Zinc was reported as detected in one preparation (method) blank associated with the decontamination water sample and calcium was reported as detected in six preparation blanks. The result for zinc in the decontamination water sample was qualified as nondetect at the reported value because the sample concentration was less than 5x the preparation blank result. All results reported for calcium in associated samples were greater than 5 times the respective preparation blank result and no qualification of the calcium data was necessary.

Cadmium was reported as detected in three continuing calibration blanks (CCBs), beryllium in three CCBs and tin and nickel each in one CCB. Associated sample results for these analytes were qualified as nondetect if the sample concentration was less than five times the respective CCB value.

Negative results were reported for chromium in one initial calibration blank and in three CCBs, cadmium in two CCBs and sodium, tin and cobalt each in one CCB. Associated sample results for these analytes reported as detected at concentrations less than three times the absolute value of the respective negative blank result or reported as nondetects with detection limits less than three times the absolute value of the blank result were qualified as estimated (J/UJ) based on a potential low bias.

Interference Check Sample

The interference check sample data were evaluated as part of the full validation. No problems were identified in the reported interference check sample results, indicating that the laboratories interelement and background correction factors were valid.

Laboratory Control Samples

Laboratory control sample data were reviewed as part of both the full validation and the QC reviews. The RPD for tin in one DCS pair exceeded the QC limit for precision and as such, the tin result for the associated sample was qualified as estimated. The percent recoveries for tin in this DCS pair were 158 percent and 11 percent with an average recovery of 135 percent, above the upper QC limit. Detected results reported for tin in samples associated with this DCS pair were qualified as estimated due to the potential inaccuracy. All other DCS percent recoveries and RPDs were within QC limits, and no other qualification on the basis of LCS results were necessary.

Matrix Spike/Laboratory Duplicates

MS recoveries were reviewed as part of both the full validation and the QC reviews. MS and laboratory duplicate sample analyses were the quality control samples requested for assessing accuracy and precision. Due to a laboratory error, MS/MSD analyses were run on two sets of quality control samples instead of matrix spike/laboratory duplicate analyses.

In general, the results for the MS analyses, laboratory duplicate sample analyses, and MS/MSD analyses were within QC limits indicating that, on an overall basis, accuracy and precision were acceptable. The percent recoveries reported for barium and calcium in two MS analyses, lead in three MS analyses, magnesium in two, and manganese in one MS analysis were above the upper QC limit indicating a potential high bias. Detected results for these analytes in associated samples were qualified as estimated ("J"). The percent recoveries reported for antimony and thallium in seven MS and in two MS/D analyses, selenium in nine MS and two MS/D analyses, and for lead, nickel, silver and zinc each in one MS analysis were below the lower QC limit but

above 30 percent indicating a potential low bias. Associated sample results for these analytes were qualified as estimated.

The MS percent recoveries for antimony in two MSs, thallium in one MS and selenium in one MS analysis were below 30% indicating unacceptable accuracy. The results for these analytes in associated samples were qualified as unusable (R).

The RPDs between the sample and laboratory duplicate results for aluminum, barium, calcium, chromium, iron, lead, magnesium, manganese, nickel and zinc for one or more laboratory duplicate analyses were outside the QC limit of 20% indicating some imprecision. Associated sample results were qualified as estimated. All other laboratory duplicate results were within QC limits.

For two samples the laboratory analyzed an MS/MSD in place of a laboratory duplicate. In those instances, the RPDs between the MS/MSD results were used to evaluate precision. The RPDs for thallium in one MS/MSD pair and for lead in a second MS/MSD pair were outside the QC limits. Associated sample data were qualified as estimated.

All other percent recoveries and RPDs were within QC limits and no other metals data were qualified on the basis of the matrix spike/laboratory duplicate results.

Furnace Atomic Absorption QC

The graphite furnace atomic absorption QC data were evaluated as part of the full validation. Duplicate injections were not performed with these analyses because they are not a requirement of GFAA methodology in SW-846 nor required by the DCQAP. Post digestion spike recoveries were reported outside the lower QC limits for selenium and thallium in nine samples indicating a potential low bias. and the associated sample results were qualified as estimated.

ICP Serial Dilution

Inductively coupled plasma atomic absorption (ICP) serial dilutions were not performed with the analyses because they are not a requirement of SW-846 on a well characterized matrix and were not specified by the DCQAP for analyses on this project.

Sample Result Verification

Sample results and detection limits were evaluated as part of the full validation. Data for one or more detected target analytes for 10 percent of the samples were recalculated from the raw data. Values which were recalculated agreed with the reported values. Reporting limits were properly adjusted for sample dilutions and the soil sample results were reported on a dry weight basis. In those instances where the post-digestion spike recoveries for selenium and thallium were below 80 percent, the laboratory raised the reporting limits for nondetects by a factor of two to account for the low bias.

Field Duplicate Evaluation

Field duplicate results were evaluated as part of both the full validation and the QC reviews. All field duplicate samples collected for metals analysis were homogenized.

The results for metals reported for the field duplicate pairs were within the DCQAP acceptance limits, indicating acceptable precision, and no qualification of metals data on the basis of field duplicate analyses was necessary.

4.2.3.3 PCDDs/PCDFs

Holding Times

Holding time criteria were reviewed as part of both the full validation and the QC reviews. All PCDD/PCDF analyses were conducted within the required holding time requirements and data qualification was not necessary.

Instrument Performance

Instrument performance was evaluated during the full validation. All instrument performance criteria were met for this analysis, and no qualification was necessary.

Initial and Daily Calibration

Calibration data were evaluated as part of the full validation. All initial and daily calibration requirements specified by Method 8280 were satisfied, and data qualification was not required.

Method Blanks

Two method blanks were associated with the PCDD/PCDF analyses. No target analytes were reported as detected in the method blanks, and consequently, there is no evidence of laboratory contamination.

Recovery Standard

The ion ratios for the recovery standard in all sample analyses was satisfactory, and data qualification was not required.

Internal Standards

The results obtained for internal standard recoveries in all sample analyses were satisfactory, and data qualification was not required.

Laboratory Control Samples

Laboratory control sample data were reviewed as part of both the full validation and the QC reviews. The recoveries obtained for all target analytes present in the laboratory control sample were within the acceptance limits specified in the DCQAP indicating that satisfactory accuracy with respect to the general sample matrix (soils) was attained. The laboratory control sample was not analyzed in duplicate; however, precision was assessed indirectly by calculating the

RPDs between the percent recoveries for the target analytes calculated from the continuing calibration analysis and the percent recoveries for the target analytes reported for the laboratory control sample. No instances were found in which the RPD so calculated exceeded the RPD limits for duplicate laboratory control samples. This was considered to be an adequate demonstration of the precision of the sample analysis on laboratory standards. Data qualification was not required.

Field Duplicates

Field duplicate results were reviewed in both the full validation and the QC reviews. The applicable evaluation criteria were satisfied by all analytes for all field duplicate sample pairs and data qualification was not required.

Compound Quantitation and Reported Detection Limits

Compound quantitation and detection limits were evaluated as part of the full validation. More than 10 percent of all sample results were recalculated from the raw data. No errors were found in compound identification and reported analyte concentration (positive results were reported for QC samples only), or detection limit calculations and data qualification was not required.

4.2.3.4 Other Analytes (Total Organic Carbon, Cyanide and Sulfide)

Holding Times

Holding times were reviewed for all sample analyses against the holding time criteria specified in the DCQAP. All analyses were conducted within holding times, and no qualification of data was required.

Calibrations

Calibration data were reviewed as part of the full validation. All calibrations met all validation criteria and no data were qualified based on calibration.

Method Blanks

Method blank data were reviewed as part of both the full validation and QC reviews. TOC, cyanide and sulfide were reported as nondetects in all method blanks associated with the soils analyses and decontamination water analysis. Therefore, there is no evidence of laboratory contamination based on method blank results for these parameters.

Matrix Spike/Matrix Spike Duplicate

MS/MSD data were reviewed as part of both the full validation and QC reviews. All MS/MSD percent recoveries and RPDs were within QC limits indicating satisfactory accuracy and precision.

Laboratory Control Samples

LCS data were reviewed as part of both the full validation and QC reviews. DCSs were the laboratory control samples analyzed for the TOC, cyanide and sulfide analyses. All DCS results were reported within the QC limits indicating satisfactory performance of all steps in the analysis, including preparation.

Field Duplicate Evaluation

Field duplicate results were reviewed as part of both the full validation and the QC reviews. The field duplicate samples collected for analysis of these parameters were homogenized. The results for TOC, cyanide, and sulfide reported for the field duplicate pairs were within the DCQAP QC limits indicating acceptable precision, and no qualification of data for these parameters on the basis of field duplicate analyses was necessary.

Evaluation of Compound Quantitation

Quantitation and detection limits were evaluated as part of the full validation. Data for one or more detected target analytes for 10 percent of the samples were recalculated from the raw data. Values which were recalculated agreed with the reported values. Reporting limits were

properly adjusted for sample dilutions and the soil sample results were reported on a dry weight basis.

Data were also checked in both the full validation and the QC reviews to verify that the laboratory qualified results reported as detected below the reporting limits as estimated (J). No errors were found.

4.2.3.5 Tentatively Identified Compounds

All of the reported volatile and semivolatile TICs not present in associated blanks were validated during the full validation using guidance from U.S. Environmental Protection Agency's National Functional Guidelines for Organic Data Review, February 1994. As specified in the DCQAP, reported TICs in all data packages considered potentially to contribute significantly to an unacceptable risk underwent a more detailed validation process than that specified in Functional Guidelines to evaluate with a greater degree of confidence whether the compounds were present or absent in the sample. The additional validation process included a review of such items as the expected chemical fragmentation patterns, compound boiling points versus retention times (RTs), peak shape for a TIC in the total ion chromatogram, comparison of RT with the RTs of other TICs with a good spectral match, and comparison of TIC results for field duplicate pairs. Other reported TICs were reviewed as specified in Functional Guidelines. At least 50 percent of TICs in all data packages that underwent a QC review underwent validation in accordance with Functional Guidelines criteria.

Volatile TICs were reported as detected in 66 samples and semivolatile TICs were reported as detected in 59 samples. The results for TICs identified as reagent contaminants, solvent preservatives, aldol condensation products or other common laboratory artifacts/contaminants such as siloxanes (common laboratory artifact attributed to column bleed), phthalates (common laboratory contaminant) and 1,1,2-trichloro-1,2,2-trifluoroethane (Freon™ - common lab contaminant) were qualified as unusable (R). Six TICs reported by the laboratory were also present in the associated method blanks and were qualified as unusable (R) by the data reviewer. The tentative identifications reported for 12 TICs were rejected during data validation and the identifications revised to "unknown." No other reported TIC identifications

were considered unacceptable and results were qualified "NJ," tentatively identified, with approximated concentrations.

A detailed discussion of the TIC validation is presented in the Data Validation report in Appendix F.

4.2.4 Summary

As summarized above and discussed in detail in the full validation and QC review reports in Appendix F, conformance to accuracy and precision criteria were evaluated for all sample results, and qualification or rejection of sample data was performed in accordance with specified guidelines and criteria. The analytical data, as qualified, presented in this report have been found to meet the QA objectives for this project as specified in the validation protocols. QA objectives were satisfied as determined by the quality parameters of accuracy, precision, and completeness as discussed below.

Approximately 3.8 percent of the VOC soils data were qualified as estimated due to calibration problems, poor field duplicate precision, low surrogate recoveries, or detects reported below the reporting limit; and less than 1 percent of the data was rejected due to calibration problems. Results reported as detected below the reporting limit represented 54.2 percent of the data requiring qualification as estimated. All target compound results for the decontamination water sample were reported as not detected and were qualified as estimated due to low surrogate recovery of toluene-d8.

For the SVOC soil data, approximately 1.3 percent were qualified as estimated due to calibration problems or positively identified analytes quantitated below the reporting limit. Results reported as detected below the reporting limit represented 38.5 percent of the data requiring qualification. No qualification of the decontamination water sample results was required.

For the pesticide/PCB data, one result, which represented less than 0.1 percent of the data, was qualified as estimated due to an LCS problem and a reported concentration below the reporting limit. No qualification of the decontamination water sample results was required.

Approximately 3.0 percent of the organophosphorus pesticide data and 3.1 percent of the chlorinated herbicide data were qualified as estimated due to surrogate recoveries and holding time exceedence, respectively. No results for these analytes were reported as detected at values below the reporting limits, and no qualification of the decontamination water sample results was required.

All of the PCDD/PCDF, TRPH, TOC, sulfide and cyanide data were considered valid as reported and no data for these analytes were qualified or rejected.

For the metals analyses, approximately 34 percent of the data were qualified as estimated due to laboratory duplicates, laboratory control sample results, MS recoveries or reported concentration below the reporting limit. Results reported as detected below the reporting limit represented 31.9 percent of the data requiring qualification. No qualification of the decontamination water sample was required.

4.2.4.1 Accuracy

The overall accuracy of the analytical data for this project, as measured by percent recoveries for surrogate compounds, MS/MSD analyses, and LCS analyses were considered acceptable as discussed below.

All surrogate recoveries were within acceptance limits for the SVOCs and chlorinated herbicide analyses, and less than 1 percent of the VOC and pesticide/PCB surrogates and 3 percent of the surrogates for the organophosphorus pesticide analyses were outside of QC limits indicating acceptable matrix-specific accuracy.

The percent recoveries for the MS/MSDs reported for VOCs, SVOCs, organochlorine pesticides, OPPs, chlorinated herbicides and TRPH ranged from 35 to 129 percent, with 98 percent of the percent recoveries in the range of 50 to 129 percent. The percent recoveries for all VOC, pesticide/PCB, OPP, chlorinated herbicide, and TRPH MS/MSD analyses were within QC limits. For the SVOC analyses, the percent recovery for 2,4-dinitrotoluene in one MS and one MSD analysis was out of the QC limits. For the metals analyses, approximately 18 percent of the MS recoveries and 15 percent of the MSD recoveries were outside of the QC

limits with less than 2 percent of the MS recoveries less than 30 percent. The percent recoveries for all other MS/MSD analyses were within acceptance limits indicating acceptable accuracy.

With the exception of the spike recovery for gamma-BHC in one of the laboratory control samples, all LCS percent recoveries were within QC limits.

4.2.4.2 Precision

The overall precision of the analytical data for this project, as measured by the RPDs between MS/MSD analyses, laboratory duplicate control sample analyses, laboratory duplicate results and field duplicate results were considered acceptable as discussed below.

All MS/MSD RPDs for organochlorine pesticides, OPP and chlorinated herbicides were within QC limits, and approximately 98 percent of the RPDs for the VOC MS/MSDs and 96 percent of the RPDs for the SVOC MS/MSDs were within QC limits. For the metals analyses, MS/MSD pairs were analyzed rather than laboratory duplicates for two data packages. Approximately 95 percent of the RPDs for metals were within QC limits.

The RPDs reported for the DCSs for all analyses, except metals and organochlorine pesticides, were within QC limits. The RPDs for tin in two of 12 DCSs and all of the RPDs for one of 13 organochlorine pesticide DCS pairs were outside of QC limits.

Approximately 76 percent of the results for the sample/laboratory duplicate pairs and all of the results for the field duplicate sample pairs were within QC limits indicating acceptable precision.

4.2.4.3 Completeness

The percent completeness for analytical methods was greater than 99 percent, thus satisfying the completeness goal of 90 percent specified in the DCQAP. With the exception of the VOC and metals analyses, completeness, which is defined as the percentage of analytical results judged to be valid including estimated values, was 100 percent for all analytical methods

For VOCs, the percent completeness is 99.9 percent due to rejection of the results for DBCP, an Appendix IX analyte, in six samples. The percent completeness for the metals analyses was 98.5 percent due to rejection of results for antimony in 37 samples, selenium in six samples and thallium in 15 samples.

4.2.4.4 Method Blank Contamination

A total of 171 method blanks were analyzed with target analytes reported as detected in 19 of these blanks. Of these method blanks, VOC target analytes were detected in 10 of 19 VOC method blanks, SVOCs were detected in 5 of 17 method blanks, and metals were detected in 4 of 77 method blanks. Target analytes were not reported as detected in any of the method blanks associated with the other analyses. Calcium, zinc, and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone and phthalates) were the only target analytes reported as detected in the method blanks associated with the sample analyses. All of the analytes reported as detected in the method blanks associated with the VOC and SVOC analyses are common laboratory contaminants. Additionally, samples with detected concentrations of these common laboratory contaminants were randomly distributed throughout the site suggesting that these analytes are likely laboratory artifacts rather than due to a specific source within the site. As such, the presence of low levels of methylene chloride, acetone, 2-butanone and phthalates in environmental samples is likely to be a result of laboratory contamination and should not be considered an indication of the presence of these analytes in the environmental samples.

4.3 SURFACE AND SUBSURFACE SOIL

The purpose of this section is to present the nature and extent of surface and subsurface soil contamination identified at Landfill No. 5 during the Phase I RFI conducted in July and August 1995.

For this discussion, surface or subsurface soil that contains detectable concentrations of chemical compounds that do not occur naturally in the environment (i.e., organic chemical compounds) and metals that were detected at concentrations higher than the background range established for the soil in the area were identified and the nature and extent described.

A human health risk screen was performed as part of this RFI (Section 6.0) to assess the potential risk to public health and the environment from contaminants described herein.

Soil was the primary medium of concern for the Phase I RFI at Landfill No. 5 because potential impacts to groundwater, although a concern at Cannon AFB, may not be significant since the Ogallala aquifer beneath Cannon AFB lies at approximately 270 feet bgs.

Inorganic and organic constituents detected in surface and subsurface soil collected for chemical analyses from 30 borings are discussed in detail below by the following chemical groups: commonly occurring elements (calcium, potassium, and sodium), metals, SVOCs, VOCs, PCB/pesticides, TRPH, cyanide and herbicides. TICs identified by the laboratory are also discussed.

Background concentration ranges were previously developed for Cannon AFB and presented in the report entitled "Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater" (W-C 1994). Background ranges for soil were developed in the 1994 study using chemical data from 49 soil samples collected during past investigations in areas believed to represent locations that have not been impacted by past or current activities at Cannon AFB. The background soil locations included: 2 locations in off-base areas, 14 locations near the sanitary sewer line 17 locations west of Landfill No. 2, 4 locations west of Landfill No. 25 and 12 locations along the base perimeter at Cannon AFB. The upper limit of background concentrations in soil for the 1994 study was developed as the mean plus two standard deviations.

4.3.1 Commonly Occurring Elements

Ten surface and 150 subsurface soil samples were analyzed for the major elements (calcium, potassium, and sodium). Minimum, maximum, and mean values for these three elements are listed in Table 4-1 along with background ranges for soil at Cannon AFB (W-C 1994) and concentration ranges for these elements typical of soil of the southwest United States (Lindsay 1979). Calcium, potassium, and sodium concentrations reported in all surface and subsurface samples analyzed are summarized by boring and are presented in Tables 4-2 through 4-31. During the Phase I RFI, sodium was found at a concentration of 3,920

milligrams per kilogram (mg/kg) at the surface location near boring 113-13 which exceeded the maximum background of 834 mg/kg established for Cannon AFB. This was the only occurrence of sodium above background. Potassium was found at a concentration of 2,970 mg/kg at one surface location near boring 113-04 and at a concentration of 2,550 mg/kg in 2 subsurface soil samples collected at depths of 20-22 and 25-27 feet bgs in borings 113-02 and 113-19, respectively which exceeded the maximum background of 2,531 mg/kg established for Cannon AFB. Calcium was found in 20 subsurface samples in 16 borings above the maximum background of 166,199 mg/kg. These 20 samples were collected between approximately 14 and 35 feet bgs. High concentrations of calcium are due to the calcareous nature of the geologic units beneath Landfill No. 5 (i.e., the presence of caliche and calcium carbonate sands). The maximum value of calcium in soil was 284,000 mg/kg found at 20 feet bgs in boring 113-28.

Although calcium, potassium and sodium concentrations were detected above the established background range for Cannon AFB in several soil samples collected during the Phase I RFI, these three elements were all below the maximum literature values for these elements in soil of the Southwest U.S. and are not considered to be contaminants at Landfill No. 5.

4.3.2 Metals

Ten surface and 150 subsurface soil samples were collected and analyzed for a list of 24 metals. The samples collected from the bottom of each boring were also analyzed for tin. Metals concentrations reported in the soil samples collected during the Phase I RFI are summarized by boring (113-01 through 113-30) and are presented in Tables 4-2 through 4-31, respectively. The occurrence and concentrations of metals detected in surface and subsurface soils beneath Landfill No. 5 were compared to statistical background concentrations previously developed for each of the metals (with the exception of tin) at Cannon AFB to describe the nature and extent of metals in soil.

A total of 55 soil samples (surface and subsurface samples) showed concentrations of one or more metals above the background range for the Phase I RFI at Landfill No. 5. Table 4-32 summarizes the results for metals that exceeded the background range listing the soil sampling depths and the boring locations where these metals exceedances were detected.

Table 4-33 provides a summary of metals found above the background in subsurface soil samples by boring. These metals and their concentrations are displayed on geologic profiles A-A' through E-E' (Figures 4-1 through 4-5) to illustrate the lateral and vertical occurrence of metals detected above the background range. Figure 3-6 shows the borings and geologic profile line locations.

Subsurface samples were collected at each boring location at designated depths below the base of the landfill cell. The first subsurface sample was collected approximately 5 feet below the base of the landfill and is referred hereafter as the sample collected immediately below the base of the landfill. The 4 subsequent subsurface samples collected at each boring location were obtained approximately 10, 20, 30, and 40 feet below the base of the landfill and are referred to as the second, third, fourth, and fifth subsurface samples collected for chemical analysis.

The occurrence of metals detected above the maximum background value in surface soil is discussed below first followed by a discussion of metals in subsurface soil.

Surface Soil

A total of 10 surface samples were collected for metals analyses at Landfill No. 5. Metals concentrations above the background range were detected in five of the 10 surface soil samples (i.e., those collected near borings 113-04, 113-13, 113-16, 113-22, and 113-28) with 9 different metals being detected above the background range (Table 4-32). Of these 9 metals, 5 metals (i.e., beryllium, cobalt, lead, manganese, and sodium) were found exclusively in surface samples. The other 4 metals: chromium, iron, potassium and zinc were found at these surface locations as well as in various subsurface samples. However, in all cases, the metals detected above the maximum background value in surface soil samples were not found above background at depth in any of the borings.

The following is a list of the 9 metals detected in surface soil, their frequency of occurrence, the boring locations in which they were found, the range of reported concentrations, and the background range of these metals established for Cannon AFB.

Analyte	Frequency	Boring(s)	Range of Concentrations Reported (mg/kg)	Established Background Range for Cannon AFB (mg/kg)
Beryllium	1 sample	113-04	0.7	0 - 0.6
Chromium	1 sample	113-16	19.2	0.8 - 12
Cobalt	1 sample	114-04	5	0 - 4
Iron	1 sample	113-04	9,610	0 - 8,654
Lead	2 samples	113-16, 113-22	41.4 - 78.2	0 - 18.4
Manganese	1 sample	113-04	275	0 - 151.8
Potassium	1 sample	113-04	2,970	0 - 2,531
Sodium	1 sample	113-13	3,920	0 - 834
Zinc	4 samples	113-04, 113-16, 113-22, 113-28	21.8 - 28.2	0 - 20.7

Concentrations of some of the metals (i.e., lead, cobalt, beryllium, chromium, iron and zinc) above background are likely due to the presence of pieces of scrap metal on the ground surface at Landfill No. 5.

Subsurface Soil

The metals analyses results for the 150 subsurface soil samples collected at Landfill No. 5 showed that 4 metals (arsenic, mercury, selenium and thallium) were not detected at concentrations above background and, therefore, these metals are not further evaluated within this report (Tables 4-2 through 4-31).

Beryllium, cadmium and cobalt were not detected at concentrations above background; however, non-detects with elevated detection limits for these 3 metals (i.e., above the maximum background value) were reported in 5 subsurface samples. Results for antimony reported as non-detects with elevated detection limits above background occurred in 4 of the 5 subsurface samples affected. Table 4-34 summarizes the occurrence of these elevated detection limits above the background range in the 5 subsurface samples. Based on the great number of detections of antimony, beryllium, cadmium, and cobalt within the background range in subsurface soil collected beneath Landfill No. 5 and knowing that the occurrences of elevated detection limits were reported in samples which were analyzed at a dilution in order to quantitate calcium within the calibration ranges, these metals are not considered to be

contaminants and were not further evaluated. The remaining metals detected above background are discussed below. One sample for copper had an elevated detection limit and is included in this table; however, copper was found above background in other subsurface samples collected.

Ten metals were detected in subsurface soil at Landfill No. 5 at concentrations above the established background range. A summary of their frequency of occurrence in subsurface samples, the range of reported concentrations above background and the background range of each metal is shown below followed by a discussion of the occurrence of each of these metals beneath Landfill No. 5.

Analyte	Frequency of Occurrence Above Background[1]	Range of Concentrations Reported Above Background (mg/kg)	Established Background Range for Cannon AFB (mg/kg)
Aluminum	1 sample in one boring	11,100	593 - 10,796
Barium	9 samples in seven borings	595 - 5,050	0 - 548
Chromium	5 samples in four borings	14.1 - 40.7	0.8 - 12.0
Copper	7 samples in five borings	11.6 - 63.6	0 - 10.1
Iron	2 samples in two borings	8,810 - 9,580	0 - 8,654
Magnesium	8 samples in seven borings	10,200 - 16,300	0 - 9,912
Nickel	11 samples in ten borings	10.4 - 68.6	0 - 9.7
Silver	1 sample in one borings	4.8	0 - 1.8
Vanadium	7 samples in five borings	25.5 - 36.7	1.7 - 25.0
Zinc	4 samples in four borings	23.4 - 59	0 - 20.7

[1] Borings where exceedances occurred are listed in Table 4-33.

Aluminum was found above background (10,796 mg/kg maximum background value) in the soil sample collected from a depth of 20 feet bgs (11 feet below the base of the landfill cell) in boring 113-02 located in the northeast corner of Landfill No. 5 (Table 4-32) (Figure 4-5). The concentration reported was 11,100 mg/kg only slightly above the maximum background of 10,796 mg/kg. Since aluminum was not detected in the soil sample (14 feet bgs) collected immediately beneath the landfill cell or in deeper subsurface samples collected below 20 feet bgs it is believed that the aluminum detection likely is due to site specific geologic conditions and not due to the waste within the landfill cell.

Barium was found above background (548 mg/kg maximum background value) in nine soil samples from seven boring locations (Table 4-32) The highest concentration reported was at 5,050 mg/kg in the soil collected from a depth of 45 bgs (22 feet below the base of the landfill cell) at location 113-01 (Figure 4-2). Barium was not detected at concentrations above the maximum background value in the two soil samples collected for chemical analysis above this sample interval or in the two soil samples collected below this sample in boring 113-01. The other eight occurrences of barium were found at 6 borings (113-10, 113-12, 113-17, 113-23, 113-29, and 113-30) in soil samples collected from depths of 14 to 35 feet bgs (depths ranging from 6 to 23 feet below the base of the landfill cells) (Figures 4-1, 4-2, 4-3, and 4-5). Concentrations above background in the 6 borings ranged from 595 mg/kg to 3,470 mg/kg. Only at 2 borings (113-17 and 113-29) did more than one soil sample exhibit concentrations of barium above background. Barium concentrations which exceeded background were found primarily in silty sand units with a high content of calcium and near or within caliche units at boring locations located in the central region of Landfill No. 5. In four of the soil samples where barium exceeded background, calcium was also found above the maximum background concentration. Barium can substitute for calcium in caliche zones and the occurrence of barium concentrations above background in soil at Landfill No. 5 is believed to be due, in part, from this substitution.

Concentrations of chromium above background (12 mg/kg maximum background value) were found in 5 subsurface soil samples collected from 4 borings (113-05, 113-10, 113-25, and 113-26) at depths ranging from 34 to 64 feet bgs (Table 4-32). Borings 113-05 and 113-10 are located near the eastern edge of Landfill No. 5, and borings 113-25 and 113-26 are located in the southwestern area of Landfill No. 5 (Figure 4-3). Chromium was detected at a concentration of 30.7 mg/kg in soil collected from the base of boring 113-10 at a depth of 64 to 65 feet bgs (41.5 feet below the base of the landfill cell). At the same boring location, chromium was detected at a concentration of 40 mg/kg at a depth of 34-35.3 feet bgs (10.5 feet below the base of the landfill cell) and was below the maximum background value in the sample (29.5 feet bgs) collected immediately beneath the landfill cell. Chromium, therefore, showed a decrease in concentration with depth at this location. The other three occurrences of chromium above background were found at depths ranging from 30 to 47 feet bgs (from 11.5 to 30.5 feet below the base of the landfill cells); and were found in only one soil sample collected from borings 113-05, 113-25 and 113-26. Concentrations above

background in these 3 samples ranged from 14.1 mg/kg to 29.4 mg/kg. Since chromium did not occur at concentrations above background in soil collected immediately below the landfill cell at any of the boring locations, it is likely that the chromium concentrations detected above background are due to site specific geologic conditions and not from the waste within the landfill cells.

Concentrations of copper above background (10.1 mg/kg maximum background value) occurred in 7 samples at 5 boring locations (113-01, 113-06, 113-16, 113-20 and 113-24) (Table 4-32). No general trend of the lateral and vertical occurrence of copper above background is apparent from the data collected. The highest reported concentration for copper above the maximum background value was detected in the sample collected from the base of boring 113-01 (the fifth subsurface sample collected in this boring) at a depth of 63-64.8 feet bgs (40 feet below the base of the landfill cell in this boring) (Figure 4-2). However, copper was not detected above background in the 4 shallower subsurface soil samples collected for chemical analyses above this sample in this boring. At borings 113-06, 113-16 and 113-20, soil samples collected immediately below the base of the landfill cell (approximately 5 feet) had copper detected above background (Figures 4-4 and 4-5). At 2 of these 3 borings, 113-06 and 113-20, copper was not detected above background in any of the other 4 samples collected at depth. At boring 113-16, however, copper was found in the second and fourth subsurface soil collected at depths of 50-50.9 and 70-70.9 feet bgs (at 10.9 and 30.9 feet, respectively, below the base of the landfill cell) with copper increasing in concentration with depth. At boring 113-24, copper was detected above background in only the second subsurface soil sample collected below the base of the landfill cell (9 feet below the base of the landfill cell). Copper was not detected in boring 113-24 above background in soil collected for chemical analysis above or below this sample.

Iron was found at concentrations above background (8,654 mg/kg maximum background value) in 2 subsurface samples collected from 2 borings (113-10 and 113-19) (Table 4-32). Iron concentrations above background (9,580 mg/kg and 8,810 mg/kg at borings 113-10 and 113-19, respectively) were found in the second subsurface sample collected at both locations and not in the sample collected immediately beneath the landfill cells (Figures 4-3 and 4-4). These samples were collected from depths of 34 feet bgs (10.5 feet below the base of the landfill cell) and 25 feet bgs (13 feet below the base of the landfill cell) in borings 113-10 and

113-19, respectively. These concentrations are likely due to site-specific geologic conditions since these concentrations are only slightly above the maximum background of 8,654 mg/kg established for Cannon AFB and iron was not detected at concentrations above background in the soil sample collected immediately beneath the landfill cell at both locations.

Magnesium was found at concentrations above background (9,912 mg/kg maximum background value) in 8 subsurface samples collected from 7 borings (113-04, 113-13, 113-14, 113-15, 113-22, 113-25 and 113-26) (Table 4-32). The range of concentrations detected above background was 10,200 mg/kg to 16,300 mg/kg. These borings are all located in the southern portion of Landfill No. 5. Boring 113-14 was the only location where more than one soil sample had magnesium detected above background (Figure 4-5). Magnesium concentrations reported above background were found in soil collected at depths of 25 to 47 feet bgs (between 5 to 30 feet below the base of the landfill cells) from the 7 borings and occurred primarily in caliche units and sand units with only a trace amount of silt. The highest concentration was detected in a caliche unit found at a depth of 47 feet bgs (approximately 30 feet below the base of the landfill cell) at boring 113-26 (Figure 4-3). In only one of the 8 samples did magnesium occur above background in the sample collected immediately beneath a landfill cell. This sample was collected in a sand unit with little silt at a depth of 32 feet bgs at boring 113-14. At this same boring location, the sample collected at a depth of 38 feet bgs within a caliche unit showed a slight increase in the magnesium concentration. Magnesium concentrations in soil that exceeded background at Landfill No. 5, are believed to be due to site-specific geologic conditions. Magnesium can substitute for calcium and the occurrence of magnesium concentrations above background in soils at Landfill No. 5 is believed to be due, in part, from this substitution.

Nickel was found above background (9.7 mg/kg maximum background value) in 11 subsurface samples from 10 borings at concentrations ranging from 10.4 mg/kg to 392 mg/kg (Table 4-32). At 8 of these 10 borings (113-03, 113-04, 113-05, 113-06, 113-07, 113-10, 113-17, and 113-30), nickel was detected at concentrations above background in the soil samples collected immediately below the base of the landfill cells (Figures 4-1, 4-2, 4-3 and 4-5). Six of these borings are located near the eastern boundary of Landfill No. 5, one in the central area and one near the western edge of Landfill No. 5. At only one of these 8 borings was nickel detected above background in the second subsurface soil sample (boring 113-10 at

a depth of 34 feet bgs) collected below the landfill cell (10.5 feet below the base of the cell). The nickel concentration in this second sample (30.2 mg/kg) showed a slight increase in concentration over the sample (18.4 mg/kg) collected immediately below the landfill cell in boring 113-10 (Figure 4-3). At 2 remaining borings 113-11 and 113-25, only the second soil sample collected below the landfill cell in each boring had nickel detected above background (Figures 4-2 and 4-3). The 2 samples in these borings were collected from a depth between 30 and 35 feet bgs (9 to 11.5 feet below the base of the landfill cells) and had nickel concentrations of 50.7 mg/kg and 68.6 mg/kg, respectively. Nickel concentrations above background were not found at any boring locations below a depth of 35 feet bgs at Landfill No. 5.

Potassium was found above background (2,531 mg/kg maximum background value) in two subsurface soil samples collected from two borings, 113-02 and 113-19 (Table 4-32). Both borings are located in the northernmost area of Landfill No. 5. Both concentrations above background occurred in soil collected between 20 and 25 feet bgs (12.5 and 13 feet below the base of the landfill cells) and both were found at a concentration of 2,550 mg/kg (Figures 4-4 and 4-5). Potassium concentrations in soil samples collected immediately below the landfill cell at these locations as well as in deeper samples collected below a depth of 25 feet bgs in these borings did not exceed background and therefore the occurrence of potassium above background is believed to be due to site geologic conditions.

Silver was found above background (1.8 mg/kg maximum background value) in only 1 subsurface sample collected from a depth of 50-50.9 feet bgs (10 feet below the base of the landfill cell) in boring 113-16 (Table 4-32). The concentration detected was 4.8 mg/kg (Figure 4-4). The sample collected above this sample interval and the 3 soil samples collected below this sample interval in boring 113-16 did not detect silver above background.

Tin was part of the Appendix IX analyte suite which was analyzed only in the bottom sample collected in each boring (i.e., 30 field samples analyzed for tin). Since a background range has not been established for tin in soil at Cannon AFB, the range of detections is presented here, and further evaluation of this metal as a contaminant is deferred to the human health risk screen, Section 6.0 of this report. Tin was detected in 5 samples collected from 5 borings; 113-01, 113-09, 113-17, 113-20 and 113-23. Detected concentrations ranged from

8.7 mg/kg to 56 mg/kg. There was no aerial pattern of occurrence for tin in soil as the borings where tin was detected were randomly located across Landfill No. 5. The geologic unit where tin was primarily detected consisted of a silty sand unit. (Figures 4-1, 4-2, 4-4 and 4-5)

Vanadium was found at concentrations above background (25.0 mg/kg maximum background value) in 7 soil samples at 5 borings (113-06, 113-08, 113-11, 113-19 and 113-27) located in the central and northern area of Landfill No. 5. Concentrations above background ranged from 25.5 mg/kg to 36.7 mg/kg. Vanadium concentrations above background were found in soil collected between 20 and 36.9 feet bgs (Table 4-32). At 3 of the borings (113-06, 113-08 and 113-27) vanadium was found in the soil collected immediately below the base of the landfill cell (Figures 4-1, 4-2 and 4-5). At 2 of these 3 borings (113-08 and 113-27), vanadium was also found at concentrations above background in the second subsurface sample collected below the base of the landfill cell. Vanadium concentrations detected in these samples showed a decrease in concentration with depth. Vanadium was not detected above background in the subsurface soil samples collected below the second sample interval in either boring. At borings 113-11 and 113-19, vanadium concentrations above background were found in only the second subsurface soil sample collected below the base of the landfill. These soil samples were collected at depths of 25-36.9 feet bgs (between 9 and 13 feet below the base of the landfill cells).

Zinc was found above background (20.7 mg/kg maximum background value) in 4 subsurface soil samples collected from 4 borings (113-05, 113-07, 113-17 and 113-25) (Table 4-32). Zinc ranged in concentration above background from 23.4 mg/kg to 59 mg/kg at depths from 24 to 30 feet bgs in the four borings. Zinc concentrations at borings 113-05, 113-07 and 113-17 were found above background in the soil sample collected immediately below the landfill cell but were not found in deeper samples collected at these locations (Figures 4-2, 4-3 and 4-5). At boring 113-25, zinc was only found above background in the second subsurface sample collected at a depth of 30 to 30.9 feet bgs (11 feet below the base of the landfill cell). This sample exhibited the highest zinc concentration (i.e., 59 mg/kg) above background. The sample collected immediately below the landfill cell at this boring did not show zinc above background.

4.3.3 Semivolatile Organic Compounds

Ten surface and 150 subsurface samples were collected from 30 borings and analyzed for SVOCs. Results of the analyses for these samples were used to describe the nature and extent of SVOC contamination at Landfill No. 5. SVOC concentrations detected in these samples are summarized by boring and are presented in Tables 4-2 through 4-31. Table 4-35 provides a summary of the SVOCs detected, excluding those analytes considered to be common laboratory contaminants (see Section 4.2). The SVOCs considered to be common laboratory contaminants for this investigation are bis(2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate and diethyl phthalate.

SVOCs were not detected in any of the surface samples collected and analyzed during the Phase I RFI. SVOCs were detected, however, in 11 subsurface soil samples collected from 6 borings (113-01, 113-13, 113-15, 113-16, 113-17, and 113-24).

Seven of the 12 SVOCs detected at Landfill No. 5 are polynuclear aromatic hydrocarbons (PAHs) including: 2-methylnaphthalene, acenaphthene, chrysene, fluoranthene, fluorene, phenanthrene and pyrene. In addition, three phenols (4-methylphenol, 4-nitrophenol, and phenol) and one furan (dibenzofuran) were detected in the subsurface soil samples.

The distribution and occurrence of the SVOCs in the 11 subsurface soil samples, the borings they were found in, and the range of concentrations detected are summarized below:

Polynuclear Aromatic Hydrocarbons

Analyte	Frequency of Detection	Boring(s)	Detected Concentrations (µg/kg)
2-Methylnaphthalene	1 sample	113-13	85J
Acenaphthene	3 samples	113-01 and 113-13	37J-82J
Chrysene	1 sample	113-13	38J
Fluoranthene	2 samples	113-01 and 113-13	67J-93J
Fluorene	2 samples	113-01 and 113-13	41J-69J
Phenanthrene	5 samples	113-01 and 113-13	41J-220J
Pyrene	2 samples	113-01 and 113-13	74J-88J

Phenols

Analyte	Frequency of Detection	Boring(s)	Detected Concentrations (µg/kg)
4-Methylphenol	2 samples	113-16 and 113-24	68J-100J
4-Nitrophenol	2 samples	113-15	49J-69J
Phenol	3 samples	113-01, 113-16 and 113-17	40J-360

Furans

Analyte	Frequency of Detection	Boring	Detected Concentrations (µg/kg)
Dibenzofuran	1 sample	113-13	44J

The distribution and occurrence of these SVOCs in soil at Landfill No. 5 are described below.

Seven PAHs were detected in 5 subsurface samples collected from 2 borings (113-01 and 113-13) located on the eastern side of Landfill No. 5 (Table 4-35) (Figures 4-2 and 4-5). At boring 113-01, 5 PAHs: acenaphthene, fluoranthene, fluorene, phenanthrene and pyrene were detected in the bottom soil sample collected at a depth of 63 to 64.8 feet bgs (approximately 39 feet below the base of the landfill cell) (Figure 4-2). PAHs were not detected in the 4 subsurface soil samples collected above this sample in boring 113-01; however, phenol was detected at the reporting limit of 360 µg/kg, in the sample collected immediately below the base of the landfill at this location. In all cases the PAH concentrations detected in boring 113-01 were well below the laboratory reporting limit.

At boring 113-13, at least one PAH compound was detected in 4 of the 5 subsurface samples collected (Table 4-35) (Figure 4-5). The first subsurface soil sample collected immediately below the base of the landfill cell at a depth of 27-29 feet bgs at boring 113-13 contained two PAHs: acenaphthene and phenanthrene. The third subsurface soil sample collected in boring 113-13 at a depth of 40-42 feet bgs (approximately 19 feet below the base of the landfill cell) had all 7 PAHs (2-Methylnaphthalene, acenaphthene, chrysene, fluoranthene, fluorene,

phenanthrene and pyrene) and dibenzofuran reported as detected. Phenanthrene was the only PAH detected in the 2 bottom-most samples collected in boring 113-13 from depths of 50-51.5 feet and 62-64.5 feet bgs (between 29 to 43 feet below the base of the landfill cell) with concentrations decreasing with depth. All SVOC detections in this boring were well below the laboratory reporting limit.

At boring 113-16, 2 phenols (4-methylphenol and phenol) were detected in the sample collected immediately below the base of the landfill cell (Table 4-35). This soil sample was collected at a depth of 45-46.9 feet bgs with 4-methylphenol being detected at a concentration of 100J µg/kg and phenol at a concentration of 40J µg/kg. No other SVOCs were found at depth at this boring location (Figure 4-4).

At boring 113-15, 4-nitrophenol was detected in the first and second subsurface samples collected at depths of 20-22 and 25-27 feet bgs (between 5 and 12 feet below the base of the landfill cell) (Table 4-35) (Figure 4-3). The concentration of 4-nitrophenol showed a slight increase in concentration (from 49J µg/kg to 68J µg/kg) with depth. 4-nitrophenol, however, was not detected below 27 feet bgs in the 3 deeper subsurface samples collected from this boring (Figure 4-3). Both concentrations detected were well below the laboratory reporting limit.

At boring 113-17, phenol was detected at a concentration of 47J µg/kg in the second subsurface sample collected at a depth of 25-26.5 feet bgs (approximately 12 feet below the base of the landfill cell) (Table 4-35). Phenol was not detected in the sample collected immediately below the landfill cell or below a depth of 26.5 feet bgs in boring 113-17 (Figure 4-2). The concentration of phenol detected was well below the laboratory reporting limit for phenol.

At boring 113-24, 4-methylphenol was detected at a concentration of 68J µg/kg in the second subsurface sample collected at a depth of 29-29.8 feet bgs (approximately 11 feet below the base of the landfill cell). This was the only SVOC detected at this boring location (Figure 4-4). The concentration of 4-methylphenol detected was well below the laboratory reporting limit.

4.3.4 Volatile Organic Compounds

Ten surface and 150 subsurface soil samples were collected from 30 borings and analyzed for VOCs. Results of the analyses for these samples were used to describe the nature and extent of VOCs detected at Landfill No. 5. VOCs in surface and subsurface soil samples are summarized by boring and are presented in Tables 4-2 through 4-31. Table 4-36 provides a summary of the VOC concentrations detected, excluding those VOC analytes considered to be common laboratory contaminants (i.e., 2-butanone, acetone, and methylene chloride).

A total of 8 VOCs were randomly detected at 16 boring locations across Landfill No. 5. The 8 volatile compounds detected were 1,1,2,2-tetrachloroethane; 2-hexanone; 4-methyl-2-pentanone; acetonitrile; carbon disulfide; ethylbenzene; styrene and toluene.

The distribution and occurrence of these VOCs in the surface and subsurface soil samples, the borings in which they were found, and the range of concentrations detected are summarized below.

Analyte	Frequency of Detection	Boring(s)	Detected Concentrations (µg/kg)
1,1,2,2 - Tetrachloroethane	4 samples	113-21	2.3J to 8.2
2-Hexanone	6 samples	113-05, 113-10, 113-16, 113-17, 113-24	1.5J-8.3J
4-Methyl-2-pentanone (MIBK)	5 samples	113-10, 113-16, 113-17	2.5J-230
Acetonitrile	4 samples	113-05, 113-07, 13-08, 113-12	16J to 67J
Carbon disulfide	1 sample	113-06	2.9J
Ethylbenzene	2 samples	113-13	1.3J-300 (includes one surface sample)
Styrene	2 samples	113-13	8.2 -1400 (includes one surface sample)
Toluene	13 samples	113-01, 113-04, 113-07, 113-10, 113-13, 113-16, 113-18, 113-19, 113-22, 113-24, and 113-25	1J-4.9J

Surface and Subsurface Soil

Ethylbenzene, styrene and toluene were the only 3 VOCs detected in surface soil samples. Ethylbenzene and styrene were both detected in the surface sample collected near boring 113-13 and were found at concentrations of 1.3J µg/kg and 8.2J µg/kg, respectively (Table 4-36) (Figure 4-5). Both of these VOCs were also detected in the first subsurface sample collected in boring 113-13 at a depth of 27-29 feet bgs (approximately 5 feet below the landfill cell). Concentrations of ethylbenzene and styrene were 300 µg/kg and 1,400 µg/kg, respectively, in the sample 27 to 29 feet bgs. However, ethylbenzene and styrene were not detected in the 4 deeper samples collected at this boring location or any other boring location.

Toluene was detected in 7 of the 10 surface soil samples collected near borings 113-01, 113-04, 113-07, 113-10, 113-13, 113-16 and 113-19 (Table 4-36) (Figures 4-3, 4-4 and 4-5). Concentrations ranged from 1.4J µg/kg to 4.9J µg/kg. All concentrations were below the laboratory reporting limit. Toluene was found at depth at only one of the above surface locations (113-10). Toluene was detected in 6 subsurface soil samples collected from 5 borings (113-10, 113-18, 113-22, 113-24, 113-25). Three of these borings (113-22, 113-24 and 113-25) are located in the southeast corner of landfill No. 5. The other two borings (113-18 and 113-10) are located in the central area of Landfill No. 5. Toluene was detected in only one sample collected immediately below the base of the landfill cell (approximately 5 feet) and this was the sample collected at a depth of 28 feet bgs in boring 113-18. At all other boring locations toluene was detected in soil collected at depths between 45 and 63 feet bgs (between 22 and 41 feet below the base of the landfill cells) with concentrations ranging from 1J µg/kg to 4.8J µg/kg. The maximum concentration (4.8J µg/kg) occurred at a depth of 45 feet bgs in boring 113-22. All detections of toluene in subsurface samples were below the laboratory reporting limit.

At boring 113-06, carbon disulfide was detected at a concentration of 2.9J µg/kg in the second subsurface sample collected at a depth of 25 to 27 feet bgs (approximately 9 feet below the base of the landfill cell) (Table 4-36) (Figure 4-5). This concentration was below the laboratory reporting limit. The sample collected above and the 3 samples collected below this sample in boring 113-06 did not show carbon disulfide to be present, and this VOC was not detected in any other soil samples collected at Landfill No. 5.

At boring 113-21, 1,1,2,2-tetrachloroethane was detected in 4 of the 5 subsurface samples collected from this boring at depths ranging from 22 to 57 feet bgs (between 5 and 40 feet below the base of the landfill cell). Concentrations ranged from 2.3J µg/kg to 8.2 µg/kg (Table 4-36) (Figure 4-4). This was the only boring where soil had detectable concentrations of this VOC. All concentrations of 1,1,2,2-tetrachloroethane were below the reporting limit except for the maximum concentration of 8.2 µg/kg, found in the second subsurface sample collected (27 feet bgs and 10 feet below the base of the landfill cell).

2-Hexanone was found in 6 subsurface samples collected from depths of 19 to 50.9 feet bgs in 5 borings (113-05, 113-10, 113-16, 113-17 and 113-24) (Table 4-36) (Figures 4-2, 4-3 and 4-4). Concentrations of 2-hexanone ranged from 1.5J µg/kg to 11J µg/kg with the maximum concentration occurring at 50 feet bgs in boring 113-16. 2-Hexanone was detected in one sample from each of the above borings except for boring 113-16. At boring 113-16, 2-Hexanone was detected in two of the subsurface samples collected showing a decrease in concentration with depth (Figure 4-4). In all cases, this compound was detected in either the first or second sample collected below the landfill cell (between 5 and 11 feet below the base of the landfill cells) and was not found in the deeper third, fourth or fifth subsurface soil sample at any of the boring locations.

4-Methyl-2-pentanone was detected in one subsurface sample from boring 113-10, one subsurface sample from boring 113-17 and 3 subsurface soil samples from boring 113-16 (Table 4-36). At borings 113-10 and 113-17 this VOC was detected in the second subsurface sample collected below the base of the landfill cell. These samples were collected at a depth ranging from 25 and 35.3 feet bgs (between 10 to 12 feet below the landfill cells) with concentrations of 6.4J µg/kg to 10J µg/kg (these concentrations were below the laboratory reporting limit). 4-Methyl-2-pentanone was not detected in the samples collected in these two borings above and below these samples (Figures 4-2 and 4-3). At boring 113-16, 4-Methyl-2-pentanone was detected in 3 subsurface samples collected at depths ranging from 45 to 60 feet bgs (between 5 and 20 feet below the base of the landfill cell) at concentrations of 230 µg/kg, 220 µg/kg and 2.5J µg/kg, respectively, showing a significant decrease with depth. The concentration of 2.5J µg/kg was below the laboratory reporting limit. The maximum concentration of 4-methyl-2-pentanone (230µg/kg) was detected in boring 113-16 at a depth of 45 feet bgs.

4.3.5 Pesticide/PCB Compounds

Ten surface and 150 subsurface soil samples were collected and analyzed for pesticides/PCB compounds. Aroclor 1254 was the only PCB detected and was reported in only 2 samples (one surface and one subsurface sample) from 2 borings (113-19 and 113-16) (Figure 4-4). Aroclor 1254 was detected at a concentration of 75 µg/kg (slightly above the laboratory reporting limit) in a soil sample collected from a depth of 45 to 46.9 feet bgs from boring 113-16. Aroclor 1254 was also detected in the surface soil sample collected near boring 113-19 at a concentration of 25J µg/kg (below the laboratory reporting limit). No other occurrence of PCB compounds were detected in soil from Landfill No. 5. In addition, pesticides were not detected in any soil samples collected from Landfill No. 5.

4.3.6 Total Recoverable Petroleum Hydrocarbons

TRPH was found in 6 surface soil samples collected near borings 113-07, 113-10, 113-16, 113-19, 113-22 and 113-28 (Table 4-36) (Figures 4-6, 4-8, 4-9 and 4-10). Concentrations ranged from 43.5 mg/kg to 85.6 mg/kg. TRPH was not detected in any of the subsurface soil samples collected below these surface locations. TRPH in surface soil occurred randomly across the site and was not found in any one area at Landfill No. 5.

TRPH was detected in 4 subsurface soil samples collected from 4 different borings (113-05, 113-11, 113-17 and 113-24) (Table 4-36) (Figures 4-7 and 4-8). At boring location 113-05 the first subsurface sample collected at a depth of 24.5 to 26.5 feet bgs had TRPH detected at a concentration of 79.1 mg/kg. TRPH was not detected in any other soil samples collected and analyzed for TRPH below 26.5 feet in this boring. At borings 113-11, 113-17 and 113-24 TRPH was detected in only the second subsurface sample collected at each of these boring locations. Concentrations were 59.1 mg/kg, 170 mg/kg and 164 mg/kg, respectively (Table 4-36). These borings occur primarily in the central portion of Landfill No. 5.

4.3.7 Cyanide

Ten surface and 150 subsurface soil samples were analyzed for cyanide. There were no detections of cyanide reported in any of the samples analyzed.

4.3.8 Herbicides

Sixty subsurface samples, two from each boring location with one sample collected immediately below the base of the landfill and the second sample collected at the base of each boring, were analyzed for herbicides. There were no detections of herbicide compounds in any of the subsurface soil samples analyzed.

4.3.9 Dioxins and Furans

Fourteen subsurface samples, collected from fourteen different borings (113-01, 113-06, 113-12, 113-13, 113-18, 113-20, 113-21, 113-22, 113-23, 113-24, 113-25, 113-26, 113-27, 113-30) were analyzed for dioxin and furans. These samples were all collected from the lowermost sample interval (approximately 40 feet below the base of the landfill cell) and in borings where the landfill material showed evidence of burned material. There were no detections of dioxin and furans reported in any of the samples analyzed.

4.4 SEMIVOLATILE AND VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

During the Phase I RFI, volatile and semivolatile organic TICs were reported in several samples by the laboratory. A total of ten volatile organic TICs and forty-two semivolatile organic TICs were identified during the analyses. In addition, five petroleum related TICs were identified. Tables 4-37 and 4-38 summarize the TICs that were detected and their occurrence in surface and subsurface soil samples analyzed during the Phase I RFI. In order to evaluate the nature and extent of these TICs, they were categorized (based on the nature of the compound and based on professional judgment) into potentially non-toxic chemicals, and potentially toxic chemicals (Table 4-39).

Of the forty-one reported semivolatile TICs identified (excluding the petroleum related TICs), twenty-nine of these compounds were considered to be potentially non-toxic (Table 4-39). Of these twenty-nine compounds, four were alcohol's, one was a ketone, nineteen were fatty acids and esters, and five were categorized as others. Of the ten detected volatile organic TICs (excluding the petroleum related TICs) three were considered to be relatively

non-toxic. Of these three compounds one was an alcohol, one was a ketone and one was categorized as other.

A summary of the potentially non-toxic TICs including their occurrence in surface and subsurface soil, the boring locations where these TICs were found and the range of concentrations reported for each of these TICs is shown in Table 4-39. These TICs are discussed below as to their possible origin based on their chemical class, however, no further evaluation of these potentially non-toxic compounds are discussed within this report.

Alcohols, aldehydes, ketones, fatty acids, and fatty acid esters are typically used in household and personal care products and would be expected to be seen in domestic landfills. Alcohols are used as solvents, in paints and lacquers; as plasticizers for PVC resins; in perfumes, cosmetics and pharmaceutical formulations; in lubricants, resins, baking finishes, inks, rubber, paper, photography and dry cleaning products. Aldehydes are used in perfumes and as flavoring agents. Ketones are typically used as solvents, especially for cellulose derivatives, in lacquers, paints, vinyl resins, lacquers, roll-coating inks, stains, paint and varnish removers, insect repellents, moth and mildew proofings, tooth powders, medicines (internal & external) and textile processing. Fatty acids are derived from or contained in animal or vegetable fats or oils and are generally used in lubricants, paints, lacquers, candles, salad oils, shortening, synthetic detergents, and cosmetics. Other TICs that were tentatively identified are considered likely to be from plant material, cooking oils, greases, waxes, cleaners and other miscellaneous household products.

The twelve semivolatile TICs and the seven volatile TICs which were considered potentially toxic or have unknown toxicity values and the petroleum related TICs are discussed in greater detail below. The occurrence of each of these TICs, their frequency of occurrence, the boring locations where these compounds were detected and their range of concentrations are summarized in Table 4-39. These TICs and their concentrations are displayed on five geologic profiles (A-A' through E-E') (Figures 4-6 through 4-10) to illustrate the lateral and vertical distribution of these chemicals in soil at Landfill No. 5. Additionally, the detections of VOC and SVOC compounds are shown on Figures 4-6 through 4-10 to illustrate the vertical distribution of TICs in relation to VOCs and SVOCs.

The semi-volatile compounds which were identified as potentially toxic or have unknown toxicity values were:

- 1-Methylnaphthalene;
- 1,1'-Biphenyl, 4,4'-difluoro-;
- 3-Cyclohexene-1-methanol.,.alpha.,.alpha.4-trim;
- alpha.amyrin;
- Cyclohexane,methyl-;
- Phenol,4,4'-butylidenebis(2-(1,1-dimethylethyl);
- Sulfur, mol. (S8)
- .alpha.-Amyrin
- Cyclopentanecarboxylic acid, 2-amino-, trans-
- Eicosanoic acid,2,3-bis(acetyloxy)propyl ester
- Stigmast-5-en-3-ol-,(3.beta.,24S)
- a'-Neogammacer--22(29)-en-3-ol,(3.beta.,24S)

The seven volatile compounds which were identified were:

- Bicyclo(2.2.1)heptan-2-one, 1,2,2-trimethyl-
- Benzene, 2-butentyl
- Acetic acid, ethyl ester
- Acetic acid, methyl ester
- 2-butene
- 1-pentene,4,4-dimethyl-
- Nonanal

In addition, the semivolatile and volatile petroleum related TICs identified were

- saturated hydrocarbons:<C10;
- saturated hydrocarbons:>C20:
- saturated hydrocarbons: C10-C20
- unsaturated hydrocarbons.

A discussion of the semivolatile TICs, the volatile TICs and the petroleum related TICs is presented below.

Semivolatile TICs of Interest

1-Methylnaphthalene was tentatively identified at a concentration of 76 µg/kg in the subsurface sample collected from a depth of 40 to 42 feet bgs (approximately 19 feet below the base of the landfill cell) at boring 113-13 (Tables 4-37 and 4-39) (Figure 4-10). This TIC was not identified in the two samples collected immediately above or immediately below this sample interval in boring 113-13 or in any other soil sample collected at Landfill No. 5. 1-Methylnaphthalene was detected in the same sample where eight semivolatile PAHs were found (i.e., pyrene, 2-methylnaphthalene, acenaphthene, chrysene, dibenzofuran, fluoranthene, fluorene and phenanthrene) (Figure 4-10).

1,1-Biphenyl, 4,4-difluoro- was found in only one subsurface sample collected at Landfill No. 5 and occurred in boring 113-25. This compound was detected at a concentration of 280 µg/kg in the second subsurface sample collected at a depth of 30-30.9 feet bgs (approximately 11 feet below the base of the landfill cell) (Tables 4-37 and 4-39) (Figure 4-8). This TIC was not detected in the sample collected immediately below the base of the landfill cell or in the three subsurface samples collected below this sample at this boring location. In addition, this compound was not detected in any other soil collected from Landfill No. 5. A saturated hydrocarbon TIC between the range of C10-C20 was also detected at a concentration of 5,370 µg/kg in this soil sample, however, no SVOCs or VOCs were associated with this detection.

3-Cyclohexene-1-methanol.,.alpha.,.alpha.4-trim was found at a concentration of 190 µg/kg in only one surface soil sample collected near boring 113-01 (Tables 4-37 and 4-39) (Figure 4-7). This TIC was not detected in any other of the five subsurface samples collected below the landfill cell at this boring location or in any soil collected from Landfill No. 5. At surface location 113-01 three additional SVOC TICs (.alpha.-amyrin, stigmast-5-en-3-ol-, [3.BETA,.24S), and saturated hydrocarbons greater than C20), one VOC (toluene), and one VOC TIC (bicyclo[2,2,1]heptan-2-one,1,3,3-trimethyl) were also detected.

The compound .alpha.-amyrin was detected at a concentration of 140 µg/kg in only one surface sample collected near boring 113-01. (Tables 4-37 and 4-39) (Figure 4-7). This TIC (possibly a naturally occurring compound) was not detected in the subsurface samples collected at this boring location or in any other soil samples collected from Landfill No. 5. The occurrence of this compound with other SVOCs and VOCs is described above in the discussion of 3-cyclohexene-1-methanol.,.alpha.,.alpha.4-trim.

Cyclohexane, methyl was detected in 6 subsurface soil samples collected from 3 borings (113-22, 113-23, and 113-27) (Tables 4-37 and 4-39). These borings are all located in the southwest portion of Landfill No. 5. Methyl Cyclohexane was found in the first sample collected immediately below the base of the landfill cell at all three boring locations with concentrations ranging from 140 µg/kg to 180 µg/kg. At only two of these three borings, 113-22 and 113-23, Cyclohexane, methyl was detected in deeper subsurface soil samples (Figures 4-6 and 4-8). At boring 113-22, cyclohexane, methyl was detected at a concentration of 140 µg/kg (the same concentration as detected in the sample collected immediately below the landfill cell at this location) in the fourth subsurface soil sample collected from a depth of 45-45.9 feet bgs (approximately 31 feet below the base of the landfill cell). At boring 113-23, cyclohexane, methyl was detected in the two subsequent soil samples (the second and third sample) collected from depths of 24-26 feet bgs and 35-36.3 feet bgs (between 9 and 20 feet below the base of the landfill cell) at concentrations of 170 µg/kg and 180 µg/kg, respectively (showing only a slight increase in concentration with depth). This TIC, however, was not detected in the fourth or fifth subsurface sample collected at boring 113-23. In only two of the six soil samples where this compound was detected was it found with another compound. In the soil sample collected immediately below the base of the landfill cell at boring 113-27 a SVOC TIC (saturated hydrocarbon greater than C20) was detected at a concentration of 710 µg/kg. In the fourth subsurface soil sample collected from boring 113-22 a VOC (toluene) was also detected at a concentration of 4.8 J µg/kg.

Phenol, 4,4'-butylidenebis(2-(1,1-dimethylethyl) was detected in only one sample, at a concentration of 240 µg/kg the second subsurface soil sample collected at a depth of 27 to 29 feet bgs (approximately 11 to 13 feet below the base of the landfill cell) in boring 113-26 (Tables 4-37 and 4-39) (Figure 4-8). This TIC was not detected in the soil sample collected immediately above nor in the three subsurface samples collected below this sample interval

at this boring location and was not detected in any other soil samples collected from Landfill No. 5. In addition, this was the only organic compound detected at this boring location.

Molecular Sulfur was found in the two subsurface soil samples collected immediately below the base of the landfill cell at boring 113-16 (Figure 4-9). The samples were collected at depths of 45-46.9 and 50-50.9 feet bgs (between approximately 5 and 10 feet below the base of the landfill cell) with detected concentrations of 750 µg/kg and 190 µg/kg, respectively (Tables 4-37 and 4-39). This TIC was not detected below a depth of 50.9 feet bgs at this boring location or in any other soil collected from Landfill No. 5. This TIC was found with two VOC TICs (2-hexanone and 4-methyl-2-pentanone) in both subsurface soil samples. In addition, two semivolatile compounds (4-methylphenol and phenol) were also detected in the soil sample collected immediately below the base of the landfill cell at boring location 113-16.

Alpha.-Amyrin was detected in only one surface soil sample at a concentration of 140 µg/kg near boring 113-01. This TIC was not detected at depth at this location nor was it identified in any other soil at Landfill No. 5 (Tables 4-37 and 4-39) (Figure 4-7). The occurrence of this compound with other SVOCs and VOCs was described earlier in the discussion of 3-cyclohexene-1-methanol.,.alpha.,.alpha.4 trim.

Cyclopentanecarboxylic acid, 2-amino-, trans- was detected at a concentration of 200 µg/kg in only one subsurface soil sample collected at a depth of 55 to 57 feet bgs at boring 113-11 (Tables 4-37 and 4-39). This TIC was detected in the fourth subsurface sample collected below the landfill cell but was not found in the three samples collected above and the one sample collected below this sample interval in this boring (Figure 4-7). This TIC was not detected in any other soil collected from Landfill No. 5 No other organic compounds were detected in this soil sample.

Eicosanoic acid,2,3-bis(acetyloxy)propyl ester was detected at a concentration of 340 µg/kg in only one subsurface soil sample, the third sample) at a depth of 35 to 36.9 feet bgs (approximately 22 feet below the base of the landfill cell) at boring 113-09. (Tables 4-37 and 4-39) (Figure 4-10). This TIC was not identified in the two samples collected above or the two samples collected below this sample interval at this boring and this TIC was not detected

in any other soil collected from Landfill No. 5. No other organics were detected in this soil sample or in any of the other soil samples collected from boring 113-09.

Stigmast-5-en-3-ol-, (3.beta.,24S) was detected in four surface samples collected near borings 113-01, 113-04, 113-07 and 113-10 (Figures 4-7, 4-8 and 4-10). Concentrations ranged from 280 to 350 µg/kg (Tables 4-37 and 4-39). At only one of these surface locations (113-04) was this TIC detected (concentration of 260 µg/kg) in the subsurface soil collected at a depth of 45-47 feet bgs (approximately 30 feet below the base of the landfill cell). This TIC showed a slight decrease in concentration with depth (Figure 4-8). The four borings where stigmast-5-en-3-ol-, (3.beta.24S) was detected are all located on the eastern side of Landfill No. 5. No other occurrence of this TIC in subsurface soil was detected at Landfill No. 5. The two surface samples collected near borings 113-07 and 113-10 also detected toluene, saturated hydrocarbon TICs greater than C20 and TRPH. Toluene was detected in the surface sample collected near boring 113-04 while the subsurface sample collected at 113-04 had a detection of the saturated hydrocarbon TIC greater than C20 at a concentration of 340 µg/kg. The surface sample collected near boring 113-01 had detections of toluene, and saturated hydrocarbon TICs in addition to 2 additional SVOC TICs (3-cyclohexene-1-methanol,.alpha,.alpha,4-trim and .alpha.-amyrin) and one VOC TIC (bicyclo[2.2.1]heptan-2-one,1,3,3-trimethyl).

a'-Neogammacer--22(29)-en-3-ol,(3.beta.,24S) was detected at a concentration of 180 µg/kg in only one subsurface soil sample collected at a depth of 24-26 feet bgs immediately below the landfill cell at boring 113-07 (Tables 4-37 and 4-39) (Figure 4-10). This TIC was not detected in any other subsurface soil samples collected at this boring location or in any other soil collected from Landfill No. 5. No other organic compounds were detected in association with this compound or soil sample.

Volatile TICs

Bicyclo(2.2.1)heptan-2-one,1,3,3-trimethyl- was detected in only one surface sample (concentration of 11 µg/kg) collected near boring location 113-01 (Tables 4-38 and 4-39) (Figure 4-7). This TIC was found with four SVOC TICs, 3-Cyclohexene-1-methanol,.alpha.,.alpha.4-trim, stigmast-5-en-3-ol-,(3.beta,24S), .alpha-amyrin, saturated

hydrocarbons greater than C20, and one VOC (toluene). This TIC was not detected in any of the subsurface soil samples collected from boring 113-01 or in any other soil samples collected from Landfill No. 5.

Benzene, 2-butentyl was found in only one subsurface sample (concentration of 570 µg/kg) collected at a depth of 27-29 feet bgs immediately below the base of the landfill cell at boring 113-13 (Tables 4-38 and 4-39) (Figure 4-10). This TIC was not detected in the four subsurface samples collected below this sample interval at this boring location or in any other soil samples collected from Landfill No. 5. Two VOCs (ethylbenzene and styrene) and two SVOCs (acenaphthene and phenanthrene) were also associated with this TIC.

Acetic acid, ethyl ester was detected in 10 subsurface soil samples at five borings (113-05, 113-07, 113-10, 113-27, and 113-30) (Tables 4-38 and 4-39). This TIC was detected in one subsurface sample collected from borings 113-27 and 113-30 at concentrations of 33 µg/kg and 12 µg/kg, respectively (Figure 4-6). . Both these borings are located in the western portion of Landfill No. 5. Acetic acid, ethyl ester was also detected in three of the five subsurface samples collected (the second, third and fourth subsurface sample) between 10 and 30 feet below the base of the landfill cell at borings 113-05 and 113-10. At both borings (located in the northeast corner of Landfill No. 5) the concentrations detected in these subsurface samples showed an increase with depth from 13 µg/kg to 90 µg/kg (Figure 4-8). This TIC was not detected in the sample collected immediately below the landfill cell or in the bottommost sample collected from borings 113-05 and 113-10. Acetic acid, ethyl ester was also detected in the third and fifth subsurface sample collected (approximately 19 and 37 feet below the base of the landfill cell) at boring 113-07 (located in the northeast corner of Landfill No. 5). Concentrations were found at 110 and 6.5 µg/kg, respectively, showing a decrease in concentration with depth at this boring location (Figure 4-10). No other organic compounds were detected in the samples collected from boring 113-05 and 113-30 that had detections of acetic acid, ethyl ester. In the one sample collected from 113-27, the VOC TIC acetic acid, methyl ester was also detected. In boring 113-10 the second sample collected below the landfill cell had two VOCs (2-hexanone and 4-methyl-2-pentanone) detected and the fourth sample collected in boring 113-10 had a detection of the VOC toluene. The VOC acetonitrile was detected in the 5th sample collected below the landfill cell in boring 113-07.

Acetic acid, methyl ester was detected in only one surface and in only one subsurface sample collected in two borings 113-19 and 113-27, respectively (Figures 4-6 and 4-9). Acetic acid, methyl ester was detected at a concentration of 7.4 μg/kg in the surface soil sample collected near boring 113-19. The saturated hydrocarbon TIC greater than C20, TRPH and toluene were also detected in this surface soil sample. Acetic acid, methyl ester was detected at a concentration of 6.4 μg/kg in the third subsurface soil sample collected beneath the landfill cell (approximately 18 feet below the base of the landfill cell) at boring 113-27 (acetic acid, ethyl ester was also detected in this subsurface sample) (Tables 4-38 and 4-39). Acetic acid, methyl ester was not detected in any other soil collected from Landfill No. 5.

2-butene was detected in only one subsurface sample (the second subsurface sample collected in boring 113-10) at a concentration of 8.6 μg/kg from a depth of 34-35.3 feet bgs (approximately 10 feet below the base of the landfill) (Tables 4-38 and 4-39) (Figure 4-8). This TIC was not detected in the sample collected immediately below the landfill cell or in the three subsurface samples collected below this sample interval. This TIC was also not found in any other soils collected from Landfill No. 5. This TIC was found with two other VOC TICs (acetic acid, ethyl ester and 1-pentene,4,4-dimethyl-) and two VOCs (2-hexanone and 4-methyl-2-pentanone)..

1-pentene, 4,4-dimethyl was detected at a concentration of 6.7 μg/kg in only one subsurface sample (the second subsurface sample collected in boring 113-10) collected at a depth of 34 - 35.3 feet bgs (approximately 10 feet below the base of the landfill cell). This TIC was found with two other VOC TICs (acetic acid, ethyl ester and 2-butene) and two VOCs (2-hexanone and 4-methyl-2-pentanone). This TIC was not detected in the three subsurface samples collected below this sample interval in boring 113-10 nor was it found in any other soils collected from Landfill No. 5.

Nonanal was detected at concentrations of 8.2 μg/kg and 10 μg/kg in two subsurface soil samples collected in borings 113-04 and 113-05, respectively (Tables 4-38 and 4-39) (Figure 4-8). Nonanal was detected in the third subsurface sample collected from boring 113-04 (approximately 20 feet below the base of the landfill cell) and in the fifth sample collected from boring 113-05 (approximately 40 feet below the base of the landfill cell). This TIC was not detected in any other soil collected from these two borings nor was found in any other

soil collected at Landfill No. 5. This TIC was found with the VOC, acetonitrile (16 J µg/kg), in the fifth subsurface sample collected from boring 113-05. Both borings are located near the eastern portion of Landfill No. 5.

Petroleum Related TICs

Petroleum related TICs identified in surface and subsurface samples were categorized into four chemical groups. Saturated hydrocarbons >C20, Saturated hydrocarbons in the range of C10-C20, Saturated hydrocarbons <C20 and Unsaturated Hydrocarbons. Concentrations of these TICs in soil at Landfill No. 5 ranged from 0.0078 mg/kg to 6.590 mg/kg. These petroleum related TICs were commonly associated with TRPH detections in surface and subsurface samples collected during the Phase I RFI. The TIC concentrations were generally 1 to 2 orders of magnitude lower than the TRPH concentrations in samples from the same boring.

Saturated Hydrocarbons >C20 were found in seven surface soil samples collected near borings 113-01, 113-04, 113-07, 113-10, 113-16, 113-19, and 113-28 (Tables 4-37 and 4-38) (Figures 4- through 4-10) TRPH was also detected in 5 of these 7 surface samples (except the surface samples collected near borings 113-01 and 113-04) at concentrations ranging from 43.5 mg/kg to 85.6 mg/kg. Saturated hydrocarbon TIC concentrations were all reported below 1300 µg/kg (1.3 mg/kg) for these seven samples. Saturated hydrocarbon TICs >C20 were found at depth at only two of these surface sample locations.

Saturated hydrocarbon TICs between C10 and C20 were detected at low concentrations (less than 1.4 mg/kg) in two surface samples collected near borings 113-22 and 113-25. These two borings are located in the southwest area of Landfill No. 5. TRPH was also detected at a concentration of 51 mg/kg in the surface sample collected at boring 113-22 (Figure 4-8). At boring 113-25 the first, second, third and fourth samples collected below the landfill cell had reported concentrations of 0.5 mg/kg to 5.3 mg/kg of saturated hydrocarbons between C10 and C20 (Figure 4-8). Concentrations decreased with depth.

Saturated Hydrocarbons >C20 concentrations were detected in six subsurface samples collected from 6 borings (113-04, 113-05 113-08, 113-11, 113-17, 113-24). In borings 113-

05, 113-11, 113-17 and 113-24, this TIC was found at concentrations between 4 and 7 mg/kg and was associated with TRPH concentrations ranging from 59.1 mg/kg to 170 mg/kg. These TIC detections were found in the subsurface samples collected either in the first or second subsurface sample beneath the landfill cell at each of the locations. At boring 113-11 saturated hydrocarbons between C10-C20 was also detected.

Saturated hydrocarbon concentrations >C20 and between C10 and C20 were also detected in the fourth subsurface samples collected in borings 113-04 and 113-08, respectively (Figures 4-7 and 4-8). The occurrence of these petroleum related TICs were both below 2 mg/kg and were not associated with detectable concentrations of TRPH.

Saturated hydrocarbon concentrations<C20 were detected in only one sample, the second subsurface sample collected below the base of the landfill cell at boring 113-24 at a concentration of 0.009 mg/kg. No other occurrence of this TIC was found in soil at Landfill No. 5

Unsaturated hydrocarbon TICs were identified in 3 subsurface samples collected from 3 borings (113-03, 113-10 and 113-04). Concentrations were all below 0.2 mg/kg.

4.5 LANDFILL WASTE MATERIAL

Landfill waste found in the cells at Landfill No. 5 included primarily domestic and construction wastes. Domestic waste included plastic, paper, aluminum foil, leaves and twigs and grass clippings, rubber, metal, glass, cardboard, aluminum and tin cans, string, carbonpaper, newspaper, styrofoam, rags, clothing, thread, and bottles. Construction debris included metal fragments and shavings, wood debris, asphalt, bricks, drywall, wire, fiberglass, insulation material, chain link fence, nails, duct tape, screen, steel, plywood, concrete and possible asbestos. It is important to note that liquid wastes or soil saturated with liquid waste were not encountered in the landfill material during the drilling and field logging of the landfill material. In addition, the trash observed was usually found intermixed with soil at each of the landfill cells. The intermixed soil and waste material in the landfill cells was typically dry but was occasionally noted to be moist or damp. Evidence of burned material was observed in 16 of the 34 borings drilled during the Phase I RFI.

Field screening using a photoionization detector (PID) was performed over the soil and waste cores obtained while drilling through the landfill material. Approximately 580 feet of landfill material was described and screened with a PID during the Phase I RFI. PID readings taken of the landfill material in 18 of the 32 borings drilled through landfill cells (113-01, 113-02, 113-07, 113-08, 113-09, 113-10, 113-11, 113-12, 113-15. 113-20, 113-21, 113-23, 113-24, 113-25, 113-26, 113-28, 113-29, and 113-30) (representing over half the footage drilled through landfill material and accounting for approximately 293 feet of material) were at background levels (ambient air). Of the remaining 14 borings (113-03, 113-04, 113-05, 113-06, 113-13, 113-14, 113-16, 113-17, 113-18, 113-19, 113-22, 113-27, 113-32 and 113-33) that encountered landfill material, PID readings were above background (ambient air) over a portion of at least one 5-foot core section of landfill material in the boring. Very seldom were PID readings above background for the entire length of landfill material screened in a given boring.

Thirty-two PID readings above background were reported for cores of landfill waste material during the Phase I RFI and of these 32 PID readings 28 were below 25 ppm. The four remaining PID readings of landfill waste cores were above 25 ppm at only two boring locations. These locations were borings 113-06 and 113-13. PID readings at these borings ranged from 34 ppm to 102 ppm. Of the twelve borings with PID readings above background in cores of landfill waste material, nine of these borings did have at least one VOC reported as detected for subsurface soil samples collected beneath the landfill cell. Of these nine borings, 4 showed evidence of burned landfill material. It should be noted that VOCs were also detected in subsurface samples collected from 9 borings which did not exhibit PID readings above background in the landfill waste material.

TABLE 4-1

MINIMUM, MAXIMUM, AND MEAN VALUES OF MAJOR ELEMENTS MEASURED IN SOIL SAMPLES AT LANDFILL NO. 5

Landfill No. 5 (SWMU NO. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Element	Minimum (mg/kg)	Maximum (mg/kg)	Mean (mg/kg)	Established Background Range for Soils[1] at Cannon AFB (mg/kg)	Common Background Range[2] (mg/kg)
Calcium	6740	284,000	88,802	0 to 166119	7,000 to 500,000
Potassium	428	2,970	1,013	0 to 2,531	400 to 30,000
Sodium	113	3,920	603	0 to 834	750 to 7,500

[1] Source: Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemica Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

[2] Source: Lindsay, W.L., 1979. Chemical Equilibria in Soils. John Wily & Sons, N.Y., N.Y.

(mg/kg) = Milligrams per kilogram

TABLE 4-2
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-01

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			28-30			34-36			45-47			55-56.9			63-64.8			
	Results	ual	R.L.	Results	Qual	R.L.	Results	Qual	R.L.	Results	Qual	R.L.	Results	Qual.	R.L.	Results	Qual.	R.L.	
Aluminum	4430		10.9	2240		21.8	3070		22.1	3220		10.8	2930		10.5	3200		10.8	596 - 10,796
Antimony		R			R			R			R			R			R		0 - 29.6
Arsenic	1.6		0.54	0.99		0.55	1.4		0.55	0.82		0.54	0.44	J	0.53	0.65		0.54	0 - 10.5
Barium	236	J	1.1	74	J	2.2	98.7	J	2.2	**5050**	**J**	1.1	83.2	J	1.1	119	J	1.1	0 - 548
Beryllium	0.34		0.22		U	0.44		U	0.44	0.15	J	0.22	0.12	J	0.21	0.13	J	0.22	0 - 0.6
Cadmium		U	0.54		UJ	1.1		UJ	1.1		U	0.54		U	0.53		U	0.54	0 - 2.1
Calcium	88300		21.7	**167000**		43.6	150000		44.2	71300		21.5	30900		21.1	75000		21.6	0 - 166,119
Chromium	3.3		1.1	2.6		2.2	1.8	J	2.2	2.2		1.1	3.7		1.1	5		1.1	0.8 - 12.0
Cobalt	2.1		1.1		U	2.2		U	2.2	2.7	J	1.1		UJ	1.1	1.3	J	1.1	0 - 4.0
Copper	3.8		2.2	2.2	J	4.4	2.4	J	4.4	1.1	J	2.2	1.5	J	2.1	**63.6**		2.2	0 - 10.1
Iron	3780		10.9	1410		21.8	1830		22.1	1780		10.8	1840		10.5	2150		10.8	0 - 8,564
Lead	6.1		1.1	2		0.55	2.2		0.55	1.6		0.54	1.3		0.53	1.8		0.54	0 - 18.4
Magnesium	2320		21.7	2300		43.6	4150		44.2	4890		21.5	4550		21.1	6280		21.6	0 - 9,912
Manganese	89.6	J	1.1	21.5	J	2.2	29.3	J	2.2	81.3	J	1.1	27.7	J	1.1	37.7	J	1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	5.2		4.3	2.9	J	8.7	4.9	J	8.8	3.3	J	4.3	3.5	J	4.2	3.7	J	4.3	0 - 9.7
Potassium	1160		543	652	J	1090	686	J	1110	779		538	644		526	580		541	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		U	1.1		U	2.2		U	2.2		U	1.1		U	1.1	0.41	J	1.1	0 - 1.8
Sodium		U	543		U	1090		U	1110		U	538		U	526		U	541	0 - 834
Thallium	0.14	J	1.1	0.15	J	1.1	0.15	J	1.1	0.23	J	1.1		U	0.53	0.15	J	1.1	0 - 6.2
Tin	NA			NA			NA			NA			NA			10.7	J	10.8	NA
Vanadium	13.4		1.1	7.9		2.2	18.3		2.2	5.7		1.1	5.7		1.1	10.1		1.1	1.7 - 25.0
Zinc	11.2		2.2	6.6		4.4	7.4		4.4	6		2.2	6		2.1	10.1		2.2	0 - 20.7
Acenaphthene		U	360		U	360		U	370		U	350		U	350	39	J	360	
bis(2-		U	360		U	360		U	370		U	350		U	350	57	J	360	
Butyl benzyl phthalate		U	360		U	360	38	J	370		U	350		U	350		U	360	
Fluoranthene		U	360		U	360		U	370		U	350		U	350	67	J	360	
Fluorene		U	360		U	360		U	370		U	350		U	350	41	J	360	
Phenanthrene		U	360		U	360		U	370		U	350		U	350	130	J	360	
Phenol		U	360	360		360		U	370		U	350		U	350		U	360	
Pyrene		U	360		U	360		U	370		U	350		U	350	88	J	360	
Acetone		U	11	5.9	J	11		U	11		U	11		U	11	14		11	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-3

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP NO. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-02

Chemical	Sample Interval (ft bgs)															Background Range
	14-16			20-22			30-31.5			40-41.8			49-51			
	Results	Qual.	R.L.	Results	Qual.	R.L.	Results	Qual.	R.L.	Results	Qual.	R.L.	Results	Qual.	R.L.	
Aluminum	4630		22.9	**11100**		11.2	5560		22.2	4480		10.8	2480		10.5	596 - 10,796
Antimony		R			R			R			R			R		0 - 29.6
Arsenic	1.4		0.57	1.1		0.56	1		0.55	0.88		0.54	0.48	J	1	0 - 10.5
Barium	180	J	2.3	106	J	1.1	88.2	J	2.2	68.9	J	1.1	22.4	J	1	0 - 548
Beryllium	0.33	J	0.46	0.41		0.22		U	0.44	0.18	J	0.22		U	0.21	0 - 0.6
Cadmium		UJ	1.1		U	0.56		UJ	1.1		U	0.54		U	0.52	0 - 2.1
Calcium	**172000**		45.8	65200		22.3	121000		44.3	50600		21.6	22100		21	0 - 166,119
Chromium	2.8		2.3	7.2		1.1	3.9		2.2	4.9		1.1	1.5		1	0.8 - 12.0
Cobalt		U	2.3	2.3	J	1.1		U	2.2	1.3	J	1.1		UJ	1	0 - 4.0
Copper	3.3	J	4.6	3.7		2.2	2.1	J	4.4	1.8	J	2.2	0.98	J	2.1	0 - 10.1
Iron	3530		22.9	7060		11.2	3430		22.2	2950		10.8	1600		10.5	0 - 8,564
Lead	4.3		0.57	3.5		0.56	1.9		0.55	1.9		0.54	1.5		0.52	0 - 18.4
Magnesium	4970		45.8	4150		22.3	4480		44.3	3980		21.6	2950		21	0 - 9,912
Manganese	46.3	J	2.3	53.8	J	1.1	35.8	J	2.2	34.8	J	1.1	28.8	J	1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.1	0 - 0.2
Nickel	6	J	9.2	8.5		4.5	6.4	J	8.9	4.8		4.3	2.3	J	4.2	0 - 9.7
Potassium	1530		1140	**2550**		558	977	J	1110	912		539	689		524	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1	0 - 36.8
Silver		U	2.3		U	1.1		U	2.2		U	1.1		U	1	0 - 1.8
Sodium		U	1140		U	558		U	1110		U	539		U	524	0 - 834
Thallium	0.19	J	1.1	0.17	J	1.1	0.12	J	1.1	0.16	J	1.1	0.18	J	0.52	0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.5	NA
Vanadium	14.3		2.3	13.9		1.1	12		2.2	14.8		1.1	4.8		1	1.7 - 25.0
Zinc	10.4		4.6	18		2.2	10.8		4.4	8.9		2.2	5.6		2.1	0 - 20.7
Acetone		U	11	5.1	J	11		U	11		U	11		U	10	

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-4
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5/SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-03

Chemical	Sample Interval (ft bgs)															Background Range[1]
	23-25			28-30			40-42			50-51.4			58-59.9			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	6910		52.5	5430		21.2	3970		10.7	2040		10.3	2340		10.4	596 - 10,796
Antimony		U	31.5		U	12.7		U	6.4		U	6.2		U	6.2	0 - 29.6
Arsenic	1.4		0.52	1.1		0.53	0.9		0.53	0.58		0.52	0.27	J	0.52	0 - 10.5
Barium	167		5.2	104		2.1	45.4		1.1	130		1	25.3		1	0 - 548
Beryllium		U	1		U	0.42		U	0.21		U	0.21		U	0.21	0 - 0.6
Cadmium		U	2.6		U	1.1		U	0.53		U	0.52		U	0.52	0 - 2.1
Calcium	**222000**	**J**	105	**177000**	**J**	42.5	63200	J	21.4	68900	J	20.7	31300	J	20.8	0 - 166,119
Chromium	5.5		5.2	2.6		2.1	3.1		1.1	1.7		1	1.8		1	0.8 - 12.0
Cobalt		U	5.2		U	2.1	1.1		1.1	0.73	J	1	0.7	J	1	0 - 4.0
Copper	3.9	J	10.5	2.2	J	4.2	1.1	J	2.1	0.84	J	2.1	0.56	J	2.1	0 - 10.1
Iron	4890		52.5	3330		21.2	2360		10.7	1190		10.3	1430		10.4	0 - 8,564
Lead	2.8		0.52	2.4		0.53	2		0.53	1.3		0.52	1.4		0.52	0 - 18.4
Magnesium	5210	J	105	3860	J	42.5	4200	J	21.4	4050	J	20.7	4120	J	20.8	0 - 9,912
Manganese	52.7		5.2	37.4		2.1	25.1		1.1	21.6		1	25.5		1	0 - 151.8
Mercury		U	0.1		U	0.11		U	0.11		U	0.1		U	0.1	0 - 0.2
Nickel	**22.4**	**J**	21	5.2	J	8.5	3.9	J	4.3	3.5	J	4.1	2.7	J	4.2	0 - 9.7
Potassium	1460	J	2620	1160		1060	753		534	526		517	518	J	520	0 - 2,531
Selenium		UJ	1		UJ	1.1		UJ	2.1		UJ	1		UJ	1	0 - 36.8
Silver		UJ	5.2		UJ	2.1		UJ	1.1		UJ	1		UJ	1	0 - 1.8
Sodium		U	2620		U	1060		U	534		U	517		U	520	0 - 834
Thallium	0.15	J	1		UJ	1.1	0.16	J	1.1		UJ	1		UJ	0.52	0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.4	NA
Vanadium	11.9		5.2	14.7		2.1	16.3		1.1	5		1	5.7		1	1.7 - 25.0
Zinc	13.9		10.5	9.9		4.2	6.3		2.1	3.6		2.1	4.2		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate		U	350		U	350		U	350		U	340	160	J	340	
Acetone		U	10		U	11	4.7	J	11		U	10		U	10	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-5

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-04

Chemical	Sample Interval (ft bgs)																		Backgroun Range
	0-.5			20-22			25-27			35-36.3			45-47			55-57			
	Result	Qual	R.L.	Result	ual	R.L.	Result	Qual	R.L.	Result	ual	R.L.	Result	Qual	R.L.	Result	ual	R.L.	
Aluminum	10100		10.7	4960		21.7	4680		21.6	5080		22.9	4460		10.6	3980		10.7	596 - 10,79
Antimony		R		13	J	13	11.8	J	13		UJ	13.7		UJ	6.4		UJ	6.4	0 - 29.6
Arsenic	2.9		1.1	2.1		0.54	1.8		0.54	1.5		0.57	0.78		0.53	0.59		0.54	0 - 10.5
Barium	146	J	1.1	92.4		2.2	134		2.2	258		2.3	175		1.1	48.2		1.1	0 - 548
Beryllium	**0.7**		0.21	0.27	J	0.43	0.23	J	0.43		U	0.46	0.18	J	0.21	0.17	J	0.21	0 - 0.6
Cadmium		U	0.53		U	1.1		U	1.1		U	1.1		U	0.53		U	0.54	0 - 2.1
Calcium	30200		21.4	129000	J	43.4	135000	J	43.3	2E+05	J	45.8	50100	J	21.3	54700		21.5	0 - 166,119
Chromium	9.8		1.1	6.2		2.2	3.8		2.2	4.9		2.3	2.7		1.1	3		1.1	0.8 - 12.0
Cobalt	**5**		1.1		U	2.2		U	2.2		U	2.3	1.3		1.1		U	1.1	0 - 4.0
Copper	10		2.1	2.8	J	4.3	2.2	J	4.3	3.4	J	4.6	1.7	J	2.1	1.7	J	2.1	0 - 10.1
Iron	**9610**		10.7	4340		21.7	3580		21.6	2830		22.9	2930		10.6	2520		10.7	0 - 8,564
Lead	10		1.1	3	J	0.54	2.9	J	0.54	2.2	J	0.57	2	J	0.53	1.9		0.54	0 - 18.4
Magnesium	2870		21.4	3060	J	43.4	3380	J	43.3	**13800**	**J**	45.8	5580	J	21.3	7430		21.5	0 - 9,912
Manganese	**275**	**J**	1.1	34		2.2	45.3		2.2	32.5		2.3	33.5		1.1	29		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	9.3		4.3	**10.4**		8.7	7.2	J	8.7	7.8	J	9.2	2.6	J	4.3	3.5	J	4.3	0 - 9.7
Potassium	**2970**		535	1330		1080	970	J	1080	770	J	1140	1030		531	744		537	0 - 2,531
Selenium		UJ	5.3		UJ	2.2		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		U	1.1		U	2.2		U	2.2		U	2.3		U	1.1		U	1.1	0 - 1.8
Sodium		U	535		U	1080	244	J	1080		U	1140		U	531		U	537	0 - 834
Thallium		U	0.53	0.12	J	1.1		U	2.2		U	5.7		U	1.1	0.12	J	1.1	0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.7	NA
Vanadium	24		1.1	16.4		2.2	16		2.2	17		2.3	6.6		1.1	9.3		1.1	1.7 - 25.0
Zinc	**28.2**		2.1	9.5		4.3	9.3		4.3	7.7		4.6	7.6		2.1	6.9		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate		U	350		U	360	86	J	360	52	J	380		U	350		U	350	
Diethyl phthalate	45	J	350		U	360		U	360		U	380		U	350		U	350	
Acetone	3.7	J	11	6.3	J	11	6.2	J	11		U	11	5.6	J	11	8.3	J	11	
Methylene chloride		U	5.3		U	5.4	1.2	J	5.4	3.3	J	5.7	1.1	J	5.3		U	5.4	
Toluene	1.3	J	5.3		U	5.4		U	5.4		U	5.7		U	5.3		U	5.4	

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-6

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico
BORING 113-05

Chemical	Sample Interval (ft bgs)															Background Range
	24.5-26.5			29.5-31.5			39.5-40.3			49.5-51			59.5-60.8			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual	R.L.	Result	ual	R.L.	Result	Qual.	R.L.	
Aluminum	3400		21.8	3280		21.8	5640		21.6	3530		10.4	3420		10.4	596 - 10,796
Antimony		UJ	13.1		UJ	13.1	11.2	J	12.9		UJ	6.2		UJ	6.2	0 - 29.6
Arsenic	1.6		0.55	1		0.55	1.2		0.54	0.59		0.52	0.67		0.52	0 - 10.5
Barium	194		2.2	501		2.2	520		2.2	47.5		1	103		1	0 - 548
Beryllium	0.22	J	0.44		U	0.44		U	0.43	0.13	J	0.21	0.14	J	0.21	0 - 0.6
Cadmium		U	1.1		U	1.1		U	1.1		U	0.52		U	0.52	0 - 2.1
Calcium	146000	J	43.6	**204000**	J	43.6	144000	J	43.1	42300	J	20.7	51700		20.8	0 - 166,119
Chromium	9.9		2.2	4.8		2.2	**29.4**		2.2	5.1		1	10.7		1	0.8 - 12.0
Cobalt	1.9	J	2.2	1.9	J	2.2	1.8	J	2.2	1.3		1	1.4		1	0 - 4.0
Copper	5.3		4.4	2.7	J	4.4	2.8	J	4.3	1.9	J	2.1	3		2.1	0 - 10.1
Iron	4800		21.8	1930	J	21.8	3650		21.6	2630		10.4	2870		10.4	0 - 8,564
Lead	3.5	J	0.55	1.4	J	0.55	1.8	J	0.54	1.9	J	0.52	2.5		0.52	0 - 18.4
Magnesium	3170	J	43.6	5930	J	43.6	8000	J	43.1	4240	J	20.7	5050		20.8	0 - 9,912
Manganese	57		2.2	18.6		2.2	40.9		2.2	35.4		1	42.9		1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.1		U	0.1	0 - 0.2
Nickel	**392**		8.7	7.2	J	8.7	5.9	J	8.6	4.1		4.1	4.7		4.2	0 - 9.7
Potassium	824	J	1090	428	J	1090	1030	J	1080	868		518	705		520	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	2.2		UJ	1		UJ	2.1	0 - 36.8
Silver		U	2.2		U	2.2		U	2.2		U	1	1.1		1	0 - 1.8
Sodium		U	1090		U	1090		U	1080		U	518		U	520	0 - 834
Thallium		U	1.1		U	1.1		U	1.1		U	1		R		0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.4	NA
Vanadium	13		2.2	16.5		2.2	10.9		2.2	6.6		1	9.2		1	1.7 - 25.0
Zinc	**46.7**		4.4	6.5		4.4	9.4		4.3	6.7		2.1	7.4		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate	260	J	360	76	J	360	78	J	360		U	340		U	340	
Butyl benzyl phthalate	170	J	360		U	360	36	J	360		U	340		U	340	
Di-n-octyl phthalate	160	J	360		U	360		U	360		U	340		U	340	
2-Butanone (MEK)		U	11	21		11		U	11		U	10		U	10	
2-Hexanone		U	11	1.9	J	11		U	11		U	10		U	10	
Acetone	12		11	98		11	34		11	8.1	J	10	18		10	
Acetonitrile													16	J	210	
Total Petroleum Hydrocarbons	79.1		43.6		U	43.6		U	43.1		U	41.5		U	41.6	

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-7
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-06

Chemical	Sample Interval (ft bgs)															Background Range[1]
	2-21.9			25-27			35-37			45-47			55-57.5			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual	R.L.	Result	Qual	R.L.	Result	Qual.	R.L.	
Aluminum	5310	J	56.6	6210	J	10.9	5190	J	10.8	3640	J	10.5	2310	J	10.5	596 - 10,796
Antimony		UJ	33.9		UJ	6.5		UJ	638		UJ	6.3		UJ	6.3	0 - 29.6
Arsenic	2.8		0.57	2.4		0.54	2.2		0.54	1.8		0.53	0.82		0.53	0 - 10.5
Barium	177	J	5.7	141	J	1.1	15.8	J	1.1	58.4	J	1.1	58.8	J	1.1	0 - 548
Beryllium		U	1.1	0.37		0.22	0.25		0.22	0.14	J	0.21	0.12	J	0.21	0 - 0.6
Cadmium		U	2.8		U	0.54		U	0.54		U	0.53		U	0.53	0 - 2.1
Calcium	**251000**	J	113	33500	J	21.7	37100	J	21.5	53900	J	21.1	47900	J	21	0 - 166,119
Chromium		U	5.7	4.7		1.1	3.6		1.1	6.4		1.1	11.4		1.1	0.8 - 12.0
Cobalt		U	5.7	1.5		1.1	1.1		1.1	0.88	J	1.1		U	1.1	0 - 4.0
Copper	**27.5**		11.3	4.5		2.2	2.3		2.2	2.5		2.1	2.4		2.1	0 - 10.1
Iron	4420	J	56.6	4650	J	10.9	3270	J	10.8	2420	J	10.5	1680	J	10.5	0 - 8,564
Lead	4.8		1.1	3.7		0.54	2.7		0.54	1.8		0.53	1.5		0.53	0 - 18.4
Magnesium	5940	J	113	3070	J	21.7	2710	J	21.5	2540	J	21.1	2520	J	21	0 - 9,912
Manganese	29.5	J	5.7	8	J	1.1	42.2	J	1.1	30.8	J	1.1	26.7	J	1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	**10.7**	J	22.6	6.3		4.3	4.1	J	4.3	4	J	4.2	3.2	J	4.2	0 - 9.7
Potassium	1860	J	2830	1830		543	1210		538	799		526	564		526	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		U	5.7	0.35	J	1.1		U	1.1		U	1.1		U	1.1	0 - 1.8
Sodium		U	2830		U	543		U	538		U	526		U	526	0 - 834
Thallium	0.17	J	1.1	0.17	J	0.54	0.19	J	0.54	0.12	J	0.53	0.23	J	0.53.	0 - 6.2
Tin														U	10.5	NA
Vanadium	**25.5**		5.7	17.8		1.1	13.9		1.1	10		1.1	7.9		1.1	1.7 - 25.0
Zinc	16.4		11.3	13.9		2.2	9		2.2	7.4		2.1	5.4		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate		U	370		U	360	57	J	350		U	350		U	350	
Di-n-octyl phthalate		U	370		U	360	330	J	350		U	350		U	350	
Acetone		U	11	5.1	J	11		U	11		U	11	7.9	J	11	
Carbon disulfide		U	5.7	2.9	J	5.4		U	5.4		U	5.3		U	5.3	
Methylene chloride		U	5.7		U	5.4	2.1	J	5.4		U	5.3		U	5.3	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-8
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-07

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			24-26			29-30.8			39-41			49-51			59-60.9			
	Result	Qual	R.L.	Result	ual	R.L.	Result	ual	R.L.	Result	ual	R.L.	Result	ual	R.L.	Result	ual	R.L.	
Aluminum	7240		10.3	5110		10.8	4610		22	5440		10.9	3010		10.5	2820		10.6	596 - 10,796
Antimony		R			U	6.5		U	13.2		U	6.5		U	6.3		UJ	6.3	0 - 29.6
Arsenic	2.4		0.51	1.6		0.54	0.41	J	0.55	1.4		0.54	1		0.53	0.49	J	0.53	0 - 10.5
Barium	138	J	1	42.1	J	1.1	134	J	2.2	75.2	J	1.1	75.1	J	1.1	82.9		1.1	0 - 548
Beryllium	0.44		0.21	0.33		0.22	0.24	J	0.44	0.25		0.22	0.16	J	0.21		U	0.21	0 - 0.6
Cadmium		U	0.51		U	0.54		U	1.1		U	0.54		U	0.53		U	0.53	0 - 2.1
Calcium	73200		20.6	22900		21.7	158000		44	83800		21.8	59900		21.1	46000		21.2	0 - 166,119
Chromium	6.4		1	6		1.1	4.7		2.2	7.8		1.1	5.7		1.1	11.7		1.1	0.8 - 12.0
Cobalt	3.5		1	2.3		1.1		U	2.2	1.9		1.1		U	1.1	1.2		1.1	0 - 4.0
Copper	5.7		2.1	3.7		2.2	3.2	J	4.4	2.6		2.2	2	J	2.1	2.1		2.1	0 - 10.1
Iron	6600		10.3	4610		10.8	3360		22	4190		10.9	2630		10.5	2680		10.6	0 - 8,564
Lead	6.9		1	3.9		0.54	3.3		0.55	3		0.54	2.3		0.53	1.7		0.53	0 - 18.4
Magnesium	2070		20.6	2240		21.7	3770		44	4430		21.8	2500		21.1	3510		21.2	0 - 9,912
Manganese	113	J	1	82.3	J	1.1	37.5	J	2.2	53.4	J	1.1	27.6	J	1.1	43.3		1.1	0 - 151.8
Mercury		U	0.1		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	7.5		4.1	**46.2**		4.3	6.7	J	8.8	4.9		4.4	3	J	4.2	2.2	J	4.2	0 - 9.7
Potassium	1550		515	1420		542	830	J	1100	980		544	799		527	630		529	0 - 2,531
Selenium		UJ	1		UJ	0.54		UJ	1.1		UJ	0.54		UJ	0.53		UJ	0.53	0 - 36.8
Silver		U	1		U	1.1		U	2.2		U	1.1		U	1.1		U	1.1	0 - 1.8
Sodium		U	515	135	J	542		U	1100		U	544		U	527		U	529	0 - 834
Thallium		U	2.1		UJ	1.1	0.22	J	2.2		UJ	2.2		UJ	2.1	0.11	J	1.1	0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.6	NA
Vanadium	16		1	12.1		1.1	9.4		2.2	18.8		1.1	6.8		1.1	8.2		1.1	1.7 - 25.0
Zinc	17.7		2.1	**23.4**		2.2	9.1		4.4	9.6		2.2	5.9		2.1	5.9		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate		U	340	500		360	43	J	360	590		360	430		350		U	350	
Acetone		U	10	4.3	J	11	6.3	J	11		U	11	3.9	J	11		U	11	
Acetonitrile																33	J	210	
Methylene chloride		U	5.1		U	5.4		U	5.5		U	5.4		U	5.3	2.2	J	5.3	
Toluene	3.8	J	5.1		U	5.4		U	5.5		U	5.4		U	5.3		U	5.3	
Sulfide, Total																0.57		0.53	
Total Petroleum Hydrocarbons	66.5		41.2		U	43.3		U	44		U	43.5		U	42.2		U	42.3	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-9

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-08

Chemical	Sample Interval (ft bgs)															Background Range
	20-22			25-27			35-35.9			45-47			55-57			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	5070	J	10.9	4630	J	11.7	4520	J	11.1	4250	J	10.8	3070		10.7	596 - 10,796
Antimony	5.8	J	6.5		UJ	7		UJ	6.6		UJ	6.5		UJ	6.4	0 - 29.6
Arsenic	3.7		0.54	3.3		0.59	1.2		0.55	0.83		0.54	0.66		0.53	0 - 10.5
Barium	274	J	1.1	96.3	J	1.2	147	J	1.1	285	J	1.1	38.2		1.1	0 - 548
Beryllium	0.37		0.22	0.28		0.23	0.16	J	0.22	0.13	J	0.22	0.15	J	0.21	0 - 0.6
Cadmium		U	0.54		U	0.59		U	0.55		U	0.54		U	0.53	0 - 2.1
Calcium	71800		21.8	77700		23.4	105000		22.1	43100		21.6	46500		21.3	0 - 166,119
Chromium	5.8		1.1	5.2		1.2	3.6		1.1	4.1		1.1	2.6		1.1	0.8 - 12.0
Cobalt	2.4		1.1	2.2		1.2	1.5		1.1	1.3		1.1	1.5		1.1	0 - 4.0
Copper	3.8		2.2	2.8		2.3	1.8	J	2.2	2.3		2.2	1.3	J	2.1	0 - 10.1
Iron	5050	J	10.9	4070	J	11.7	2770	J	11.1	2530	J	10.8	1940		10.7	0 - 8,564
Lead	4.5		0.54	3.5		0.59	2		1.1	1.6		1.1	2		0.53	0 - 18.4
Magnesium	2810	J	21.8	2710		23.4	7570		22.1	7230		21.6	5510		21.3	0 - 9,912
Manganese	82.3		1.1	54	J	1.2	29.8	J	1.1	30.6	J	1.1	38.2		1.1	0 - 151.8
Mercury		U	0.11		U	0.12		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	7.4		4.4	7.1		4.7	4.3	J	4.4	5.4		4.3	3.5	J	4.3	0 - 9.7
Potassium	1510		545	1310		586	759		553	975		539	680		533	0 - 2,531
Selenium		UJ	1.1		UJ	1.2		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		UJ	1.1		UJ	1.2		UJ	1.1		UJ	1.1		U	1.1	0 - 1.8
Sodium	218	J	545	159	J	586		U	553		U	539		U	533	0 - 834
Thallium	0.22	J	2.2		UJ	2.3		UJ	2.2		UJ	2.2		R		0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.7	NA
Vanadium	33.8		1.1	27.7		1.2	21.4		1.1	8		1.1	6		1.1	1.7 - 25.0
Zinc	10.8		2.2	9		2.3	7.2		2.2	6.6		2.2	5		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate	400		360	410		390	420		370	440		360		U	350	
Acetone	8.5	J	11	8.2	J	12		U	11		U	11	7.4	J	11	
Acetonitrile													67	J	210	

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-10
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 13/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-09

Chemical	Sample Interval (ft bgs)															Background Range[1]
	18-20			25-26.5			35-36.9			45-47			53-54.3			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	4450		21.8	3490		21.5	3440		21.5	2250		10.5	3620		10.7	596 - 10,796
Antimony		U	13.1		U	12.9		U	12.9		U	6.3		U	6.4	0 - 29.6
Arsenic	1.9		0.55	1.4		0.54	1.5		0.54	0.44	J	0.53	0.57		0.53	0 - 10.5
Barium	128		2.2	87.8		2.1	121		2.2	240		1.1	48.2		1.1	0 - 548
Beryllium	0.32	J	0.44		U	0.43		U	0.43		U	0.21		U	0.21	0 - 0.6
Cadmium		U	1.1		U	1.1		U	1.1		U	0.53		U	0.53	0 - 2.1
Calcium	152000	J	43.7	98400	J	42.9	114000	J	43.1	49000	J	21	96200	J	21.3	0 - 166,119
Chromium	3.8		2.2	3.1		2.1	2.9		2.2	1.7		1.1	6.1		1.1	0.8 - 12.0
Cobalt		U	2.2		U	2.1		U	2.2	0.84	J	1.1	1.5		1.1	0 - 4.0
Copper	2.4	J	4.4	2.2	J	4.3		U	4.3	0.89	J	2.1	1.7	J	2.1	0 - 10.1
Iron	3540		21.8	2530		21.5	2190		21.5	1710		10.5	2360		10.7	0 - 8,564
Lead	2.8		0.55	6		0.54	2.5		0.54	1.5		0.53	1.7		0.53	0 - 18.4
Magnesium	3910	J	43.7	2440	J	42.9	3460	J	43.1	2040	J	21	4680	J	21.3	0 - 9,912
Manganese	30.3		2.2	31.4		2.1	29.1		2.2	22.2		1.1	32.8		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	4.7	J	8.7	5.7	J	8.6	2.8	J	8.6	3.5	J	4.2	4.2	J	4.3	0 - 9.7
Potassium	1060	J	1090	701	J	1070	541	J	1080	553		526	678		534	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		UJ	2.2	0.61	J	2.1		UJ	2.2		UJ	1.1		UJ	1.1	0 - 1.8
Sodium		U	1090		U	1070		U	1080		U	526		U	534	0 - 834
Thallium		UJ	1.1	0.17	J	0.54	0.15	J	0.54	0.18	J	1.1	0.16	J	1.1	0 - 6.2
Tin	NA			NA			NA			NA			56		10.7	NA
Vanadium	9.9		2.2	8.1		2.1	11		2.2	6.3		1.1	11.7		1.1	1.7 - 25.0
Zinc	8.4		4.4	6.5		4.3	5.6		4.3	4.8		2.1	6.7		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate	73	J	360	75	J	350	190	J	360		U	350		U	350	
2-Butanone (MEK)		U	11		U	11	3.6	J	11		U	11		U	11	
Acetone		U	11		U	11	5	J	11		U	11		U	11	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-11
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-10

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			29.5-31			34-35.3			44-46			54-55			64-65			
	Result	Qual	R.L.	Result	Qual	R.L.	Result	Qual	R.L.	Result	Qual	R.L.	Result	Qual	R.L.	Result	Qual.	R.L.	
Aluminum	7260		10.4	4650		22	5350		21	4310		10.4	4030		10.2	3620		10.4	596 - 10,796
Antimony		R			UJ	13.2		UJ	12.6		UJ	6.2		UJ	6.1		UJ	6.3	0 - 29.6
Arsenic	1.9		0.52	0.78		0.55	1.3		0.53	0.78		0.52	0.71		0.51	0.84		0.52	0 - 10.5
Barium	169	J	1	110		2.2	**595**		2.1	59.5		1	81		1	70.3		1	0 - 548
Beryllium	0.49		0.21		U	0.44		U	0.42	0.16	J	0.21	0.14	J	0.2	0.14	J	0.21	0 - 0.6
Cadmium		UJ	0.52		UJ	1.1		UJ	1.1		UJ	0.52		UJ	0.51		UJ	0.52	0 - 2.1
Calcium	44600		20.8	130000	J	44.1	149000	J	42	58200	J	20.7	43200	J	20.4	88500		20.9	0 - 166,119
Chromium	6.4		1	8		2.2	**40.7**		2.1	7		1	6.8		1	**30.7**		1	0.8 - 12.0
Cobalt	3.5		1	2	J	2.2	2.5		2.1	1.1		1	0.9	J	1	1.2		1	0 - 4.0
Copper	6.4		2.1	2.2	J	4.4	6.4		4.2	2	J	2.1	1.9	J	2	3.3		2.1	0 - 10.1
Iron	6550		10.4	3090		22	**9580**		21	3140		10.4	2910		10.2	3240		10.4	0 - 8,564
Lead	7.3		0.52	2	J	0.55	2	J	0.53	1.7	J	0.52	1.7	J	0.51	1.8		0.52	0 - 18.4
Magnesium	2080		20.8	4970	J	44.1	7200	J	42	5370	J	20.7	5570	J	20.4	8060		20.9	0 - 9,912
Manganese	142	J	1	33.1		2.2	69.3		2.1	37.4		1	42.1		1	47.6		1	0 - 151.8
Mercury		U	0.1		U	0.11		U	0.11		U	0.1		U	0.1		U	0.1	0 - 0.2
Nickel	7.4		4.2	**18.4**		8.8	**30.2**		8.4	4.1		4.1	4.5		4.1	5.2		4.2	0 - 9.7
Potassium	1700		520	687	J	1100	957	J	1050	966		518	832		511	600		521	0 - 2,531
Selenium		UJ	2.1		UJ	1.1		UJ	5.3		UJ	1		UJ	1		UJ	1	0 - 36.8
Silver		U	1		U	2.2		U	2.1		U	1		U	1	0.45	J	1	0 - 1.8
Sodium		U	520		U	1100		U	1050		U	518		U	511		U	521	0 - 834
Thallium		U	1		U	1.1		U	2.1	0.1	J	1		U	1		R		0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.4	NA
Vanadium	16.7		1	17.4		2.2	14.2		2.1	8.8		1	9.7		1	12		1	1.7 - 25.0
Zinc	19.2		2.1	10.1		4.4	14.3		4.2	8.7		2.1	8.6		2	8.1		2.1	0 - 20.7
2-Butanone (MEK)	1.4	J	10		U	11		U	11		U	10		U	10		U	10	
2-Hexanone		U	10		U	11	1.6	J	11		U	10		U	10		U	10	
4-Methyl-2-pentanone		U	10		U	11	6.4	J	11		U	10		U	10		U	10	
Acetone	3.7	J	10		U	11	37		11	7.8	J	10	9.2	J	10	41		10	
Methylene chloride		U	5.2		U	5.5		U	5.3		U	5.2		U	5.1	1.3	J	5.2	
Toluene	4.9	J	5.2		U	5.5		U	5.3		U	5.2	1	J	5.1		U	5.2	
Total Petroleum Hydrocarbons	49		41.6		U	44.1		U	42		U	41.4		U	40.9		U	41.7	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-12
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-11

Chemical	Sample Interval (ft bgs)															Background Range(1)
	31-33			35-35.8			45-47			55-57			65-66.4			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	5940		11	7110		21.8	3520		10.5	3740		10.4	4120		10.6	596 - 10,796
Antimony		UJ	6.6		UJ	13.1		UJ	6.3		UJ	6.2		UJ	6.3	0 - 29.6
Arsenic	1.1		0.55	1.3		0.55	0.88		0.52	0.76		0.52	0.6		0.53	0 - 10.5
Barium	132		1.1	512		2.2	66.4		1	48.1		1	193		1.1	0 - 548
Beryllium	0.25		0.22	0.26	J	0.44	0.12	J	0.21	0.12	J	0.21	0.19	J	0.21	0 - 0.6
Cadmium		UJ	0.55		UJ	1.1		UJ	0.52		UJ	0.52		U	0.53	0 - 2.1
Calcium	81800	J	21.9	120000	J	43.7	55200	J	21	30600	J	20.8	51500		21.1	0 - 166,119
Chromium	5.4		1.1	7.8		2.2	2.8		1	3.1		1	5.1		1.1	0.8 - 12.0
Cobalt	1.2		1.1	2.2		2.2	1.2		1	0.93	J	1	1.4		1.1	0 - 4.0
Copper	2	J	2.2	4.7		4.4	1.4	J	2.1	1.5	J	2.1	2.2		2.1	0 - 10.1
Iron	3600		11	5480		21.8	2460		10.5	2750		10.4	3060		10.6	0 - 8,564
Lead	2.7	J	0.55	2.8	J	0.55	1.8	J	0.52	2.3	J	0.52	1.8		0.53	0 - 18.4
Magnesium	6260	J	21.9	8840	J	43.7	3850	J	21	4730	J	20.8	6370		21.1	0 - 9,912
Manganese	30.9		1.1	56.1		2.2	27.5		1	37		1	43.7		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.1		U	0.1		U	0.11	0 - 0.2
Nickel	4.1	J	4.4	**50.7**		8.7	3.5	J	4.2	3.2	J	4.2	4.2		4.2	0 - 9.7
Potassium	901		548	1120		1090	877		524	801		520	712		528	0 - 2,531
Selenium		UJ	5.5		UJ	5.5		UJ	1		UJ	1		UJ	0.53	0 - 36.8
Silver		U	1.1		U	2.2		U	1		U	1		U	1.1	0 - 1.8
Sodium		U	548		U	1090		U	524		U	520		U	528	0 - 834
Thallium		U	1.1		U	1.1		U	1		U	1		R		0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.6	NA
Vanadium	24.5		1.1	**27.2**		2.2	6.9		1	8.3		1	13.2		1.1	1.7 - 25.0
Zinc	10.3		2.2	12.2		4.4	5.9		2.1	6.8		2.1	7.2		2.1	0 - 20.7
2-Butanone (MEK)		U	11	7.9	J	11		U	10		U	10		U	11	
Acetone	12		11	24		11		U	10	3	J	10	11		11	
Methylene chloride		U	5.5		U	5.5		U	5.2		U	5.2	1.2	J	5.3	
Total Petroleum Hydrocarbons		U	43.9	59.1		43.7		U	41.9		U	41.6		U	42.3	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-13
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-12

Chemical	Sample Interval (ft bgs)															Background Range[1]
	27.5-29.5			34-36			45-47			55-57			65-65.6			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	3920		21.5	3940		21.5	3960		10.4	3980		10.4	3530		10.5	596 - 10,796
Antimony		R			R		4.5	J	6.3		R			UJ	6.3	0 - 29.6
Arsenic	0.89		0.54	1.3		0.54	0.71		0.52	0.62		0.52	0.58		0.52	0 - 10.5
Barium	249	J	2.2	**654**	**J**	2.1	441	J	1	28.4	J	1	56.1		1	0 - 548
Beryllium		U	0.43		U	0.43	0.17	J	0.21	0.2	J	0.21		U	0.21	0 - 0.6
Cadmium		U	1.1		U	1.1		U	0.52		U	0.52		U	0.52	0 - 2.1
Calcium	**190000**		43.1	**179000**		43	65400		20.9	19800		20.9	69500		21	0 - 166,119
Chromium	1.6	J	2.2		U	2.1	2.6		1	4.9		1	7.2		1	0.8 - 12.0
Cobalt		U	2.2		U	2.1	0.8	J	1	1.6		1	1.3		1	0 - 4.0
Copper	1.7	J	4.3	2.1	J	4.3	2.3		2.1	1.2	J	2.1	2.6		2.1	0 - 10.1
Iron	2540		21.5	2560		21.5	2430		10.4	3100		10.4	2960		10.5	0 - 8,564
Lead	2.5		0.54	1.7		0.54	1.8		0.52	2.2		0.52	1.9		0.52	0 - 18.4
Magnesium	4870		43.1	7850		43	5940		20.9	5640		20.9	6170		21	0 - 9,912
Manganese	26.9	J	2.2	29.3	J	2.1	28.6	J	1	46.9	J	1	48.8		1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.1		U	0.1		U	0.1	0 - 0.2
Nickel	3.8	J	8.6	6	J	8.6	4.8		4.2	8.3		4.2	4.9		4.2	0 - 9.7
Potassium	643	J	1080	668	J	1070	952		522	853		521	652		525	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1		UJ	1		UJ	1	0 - 36.8
Silver		U	2.2		U	2.1		U	1		U	1		U	1	0 - 1.8
Sodium		U	1080		U	1070		U	522		U	521		U	525	0 - 834
Thallium		U	1.1		U	1.1	0.13	J	0.52		U	0.52		UJ	0.52	0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.5	NA
Vanadium	14.9		2.2	18.8		2.1	8.1		1	9.1		1	12.6		1	1.7 - 25.0
Zinc	7.5		4.3	7.7		4.3	6.8		2.1	7.4		2.1	6.3		2.1	0 - 20.7
Acetone		UJ	11		UJ	11	7	J	10		U	10	8.1	J	10	
Acetonitrile													24	J	210	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-14

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 5/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico
BORING 113-13

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			27-29			32-34			40-42			50-51.5			62-64.5			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	5310		10.3	3520	J	10.9	3690	J	11	6660	J	10.9	5270	J	10.7	3610	J	10.6	596 - 10,796
Antimony		R			UJ	6.6		UJ	6.6		UJ	6.5		UJ	6.4		UJ	6.4	0 - 29.6
Arsenic	1.8		0.51	0.6		0.55	1.6		0.55	0.97		0.54	0.65		0.53	0.92		0.53	0 - 10.5
Barium	280	J	1	72	J	1.1	20.6	J	1.1	93.2	J	1.1	153	J	1.1	309	J	1.1	0 - 548
Beryllium	0.44		0.21		U	0.22	0.26		0.22	0.21	J	0.22	0.16	J	0.21	0.13	J	0.21	0 - 0.6
Cadmium		U	0.51		U	0.55		U	0.55		U	0.54		U	0.53		U	0.53	0 - 2.1
Calcium	71900		20.6	82100	J	21.8	16100	J	21.9	68100	J	21.7	59200	J	21.4	28100	J	21.3	0 - 166,119
Chromium	4.2		1	2.7		1.1	2.9		1.1	5.4		1.1	9.9		1.1	10.8		1.1	0.8 - 12.0
Cobalt	3		1	1.2		1.1	2		1.1	0.89	J	1.1	0.89	J	1.1	1.1		1.1	0 - 4.0
Copper	4.5		2.1	1.3	J	2.2	2.6		2.2	3.2		2.2	2.7		2.1	2.2		2.1	0 - 10.1
Iron	4190		10.3	2030	J	10.9	2900	J	11	4010	J	10.9	3720	J	10.7	3030	J	10.6	0 - 8,564
Lead	5.3		0.51	2.5		0.55	2.8		0.55	2		0.54	1.9		0.53	1		0.53	0 - 18.4
Magnesium	1890		20.6	3570	J	21.8	2880	J	21.9	**10600**	**J**	21.7	6970	J	21.4	3460	J	21.3	0 - 9,912
Manganese	112		1	31.8	J	1.1	65.4	J	1.1	39.7	J	1.1	40.6	J	1.1	38.9	J	1.1	0 - 151.8
Mercury		U	0.1		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	6.2		4.1	3.6	J	4.4	5		4.4	5.2		4.3	6.2		4.3	3	J	4.3	0 - 9.7
Potassium	1220		515	758		546	1240		548	1430		543	1130		534	659		531	0 - 2,531
Selenium		UJ	1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		U	1		U	1.1		U	1.1		U	1.1		U	1.1		U	1.1	0 - 1.8
Sodium	**3920**		515		U	546		U	548		U	543		U	534		U	531	0 - 834
Thallium	0.12	J	1	0.19	J	1.1	0.2	J	0.55	0.14	J	1.1	0.12	J	1.1		U	0.53	0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.6	NA
Vanadium	13.7		1	10.3		1.1	18.2		1.1	13.8		1.1	12.3		1.1	11.2		1.1	1.7 - 25.0
Zinc	11.6		2.1	6		2.2	7.2		2.2	10.3		2.2	8.8		2.1	6.8		2.1	0 - 20.7
2-		U	340		U	360		U	360	85	J	360		U	350		U	350	
Acenaphthene		U	340	37	J	360		U	360	82	J	360		U	350		U	350	
Chrysene		U	340		U	360		U	360	38	J	360		U	350		U	350	
Dibenzofuran		U	340		U	360		U	360	44	J	360		U	350		U	350	
Fluoranthene		U	340		U	360		U	360	93	J	360		U	350		U	350	
Fluorene		U	340		U	360		U	360	69	J	360		U	350		U	350	
Phenanthrene		U	340	78	J	360		U	360	220	J	360	69	J	350	41	J	350	

TABLE 4-14

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 5/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico
BORING 113-13

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			27-29			32-34			40-42			50-51.5			62-64.5			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Pyrene		U	340		U	360		U	360	74	J	360		U	350		U	350	
1-										76	NJ								
Acetone		U	10	130		110	7.2	J	11	4.9	J	11		U	11		U	11	
Ethylbenzene	1.3	J	5.1	300		55		U	5.5		U	5.4		U	5.3		U	5.3	
Methylene		U	5.1		U	55		U	5.5	1.2	J	5.4	1.8	J	5.3	1.1	J	5.3	
Styrene	8.2		5.1	1400		55		U	5.5		U	5.4		U	5.3		U	5.3	
Toluene	1.9	J	5.1		U	55		U	5.5		U	5.4		U	5.3		U	5.3	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-15

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-14

Chemical	Sample Interval (ft bgs)															Background Range[1]
	32-33.9			38-39.1			45-47			57-60.5			67-68.5			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	4370		22.3	4870		22.4	3270		10.5	3350		10.8	2960		10.6	596 - 10,796
Antimony		R			R			R			R			R		0 - 29.6
Arsenic	0.61		0.56	1.1		0.56	0.82		0.53	0.67		0.54	0.68		0.53	0 - 10.5
Barium	107	J	2.2	121	J	2.2	35.2	J	1.1	55.9	J	1.1	59.4	J	1.1	0 - 548
Beryllium		U	0.45		U	0.45		U	0.21		U	0.22		U	0.21	0 - 0.6
Cadmium		U	1.1		U	1.1		U	0.53		U	0.54		U	0.53	0 - 2.1
Calcium	135000		44.6	124000		44.7	50900		21	95300		21.5	39100		21.2	0 - 166,119
Chromium	6		2.2	4.4		2.2	2.4		1.1	6.9		1.1	4.5		1.1	0.8 - 12.0
Cobalt	1.4	J	2.2	1.4	J	2.2	0.74	J	1.1	1.2		1.1	1.2		1.1	0 - 4.0
Copper	1.6	J	4.5	2.6	J	4.5	0.89	J	2.1	1.8	J	2.2	1.4	J	2.1	0 - 10.1
Iron	2430		22.3	2890		22.4	2370		10.5	2720		10.8	2360		10.6	0 - 8,564
Lead	1.8		1.1	3.1		0.56	2		0.53	2		1.1	1.7		0.53	0 - 18.4
Magnesium	**13200**		44.6	**14500**		44.7	4380		21	8180		21.5	5030		21.2	0 - 9,912
Manganese	25.5	J	2.2	31.6	J	2.2	24.1	J	1.1	34	J	1.1	34.1	J	1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	7.8	J	8.9	8	J	8.9	3.2	J	4.2	5		4.3	4.1	J	4.2	0 - 9.7
Potassium	570	J	1120	745	J	1120	868		525	582		538	529	J	530	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		U	2.2		U	2.2		U	1.1		U	1.1		U	1.1	0 - 1.8
Sodium		U	1120		U	1120		U	525		U	538		U	530	0 - 834
Thallium		U	1.1		U	1.1		U	0.53		U	0.54		U	0.53	0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.6	NA
Vanadium	18.7		2.2	19.3		2.2	7		1.1	15		1.1	14.6		1.1	1.7 - 25.0
Zinc	5.7		4.5	7		4.5	5.5		2.1	5.5		2.2	6.2		2.1	0 - 20.7
2-Butanone (MEK)		U	11	1.8	J	11	2.6	J	11	4.4	J	11		U	11	
Acetone		U	11	5.8	J	11	4.2	J	11		U	11		U	11	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-16

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-15

Chemical	Sample Interval (ft bgs)															Background Range[1]
	20-22			25-27			35-35.8			45-46.8			55-55.8			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	4290		22.2	4490		22.2	5290		22.2	4250		11.2	4340		10.7	596 - 10,796
Antimony		U	13.3		U	13.3		U	13.3		U	6.7		U	6.4	0 - 29.6
Arsenic	0.9		0.55	1.1		0.56	1.6		0.56	0.82		0.56	0.89		0.54	0 - 10.5
Barium	304		2.2	131		2.2	245		2.2	51.3		1.1	43.2		1.1	0 - 548
Beryllium		U	0.44		U	0.44		U	0.44	0.18	J	0.22	0.12	J	0.21	0 - 0.6
Cadmium		U	1.1		U	1.1		U	1.1		U	0.56		U	0.54	0 - 2.1
Calcium	165000	J	44.4	160000	J	44.4	95900	J	44.5	42100	J	22.4	85800	J	21.4	0 - 166,119
Chromium	2.3		2.2	3.2		2.2	4.5		2.2	5.4		1.1	5.2		1.1	0.8 - 12.0
Cobalt	1.7	J	2.2	1.4	J	2.2	1.5	J	2.2	1	J	1.1	1.6		1.1	0 - 4.0
Copper	1.7	J	4.4	1.9	J	4.4	2.3	J	4.4	1.5	J	2.2	1.7	J	2.1	0 - 10.1
Iron	2610		22.2	2960		22.2	3160		22.2	3140		11.2	2930		10.7	0 - 8,564
Lead	2.4		0.55	2.2		0.56	1.9		0.56	4.7		1.1	1.8		0.54	0 - 18.4
Magnesium	4920	J	44.4	6250	J	44.4	**11100**	**J**	44.5	4690	J	22.4	7950	J	21.4	0 - 9,912
Manganese	29.9		2.2	30.2		2.2	33.9		2.2	38.2		1.1	38.8		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	5.6	J	8.9	5.4	J	8.9	6.6	J	8.9	4.6	J	4.5	3.9	J	4.3	0 - 9.7
Potassium	823	J	1110	726	J	1110	1040	J	1110	1020		561	812		536	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		UJ	2.2		UJ	2.2		UJ	2.2		UJ	1.1		UJ	1.1	0 - 1.8
Sodium		U	1110		U	1110		U	1110	113	J	561		U	536	0 - 834
Thallium		UJ	1.1	0.12	J	1.1	0.11	J	1.1	0.11	J	0.56	0.16	J	0.54	0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.7	NA
Vanadium	8.1		2.2	8.2		2.2	14		2.2	10.1		1.1	15		1.1	1.7 - 25.0
Zinc	6.6		4.4	18.9		4.4	7.8		4.4	7.3		2.2	6.7		2.1	0 - 20.7
4-Nitrophenol	49	J	1800	68	J	1800		U	1800		U	1800		U	1700	
bis(2-Ethylhexyl)phthalate	230	J	370	100	J	370	74	J	370	200	J	370		U	350	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-17

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico
BORING 113-16

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			45-46.9			50-50.9			60-60.9			70-70.8			80-81.5			
	Result	ual	R.L.	Result	Qual.	R.L.	Result	Qual	R.L.	Result	Qual	R.L.	Result	Qual	R.L.	Result	ual	R.L.	
Aluminum	5830		10.2	4080		10.5	4710		10.5	4500		10.6	3200		10.5	1530		10.4	596 - 10,796
Antimony		R			U	6.3		U	6.3		U	6.4	5.4	J	6.3		UJ	6.2	0 - 29.6
Arsenic	1.8		0.51	0.7		0.52	0.78		0.53	0.66		0.53	0.74		0.53	0.39	J	1	0 - 10.5
Barium	194	J	1	184	J	1	213	J	1.1	125	J	1.1	130	J	1.1	36.9		1	0 - 548
Beryllium	0.38		0.2	0.15	J	0.21	0.19	J	0.21	0.19	J	0.21	0.14	J	0.21		U	0.21	0 - 0.6
Cadmium		U	0.51		U	0.52		U	0.53		U	0.53		U	0.53	0.44	J	0.52	0 - 2.1
Calcium	61200		20.4	46500		21	63000		21.1	46200		21.2	46300		21.1	8830		20.7	0 - 166,119
Chromium	**19.2**		1	6.2		1	7.5		1.1	6.4		1.1	6.7		1.1	6.4		1	0.8 - 12.0
Cobalt	3.3		1	1.4		1	1.5		1.1	1.6		1.1	2		1.1		U	1	0 - 4.0
Copper	6.6		2	**12.6**		2.1	**11.6**		2.1	5.7		2.1	**27.5**		2.1	2.9		2.1	0 - 10.1
Iron	5650		10.2	3240		10.5	3520		10.5	3790		10.6	3730		10.5	2240		10.4	0 - 8,564
Lead	**41.1**		5.1	4.6		0.52	2.8		0.53	1.9		1.1	3.3		0.53	1.2		0.52	0 - 18.4
Magnesium	1990		20.4	4940		21	7370		21.1	5980		21.2	3470		21.1	1370		20.7	0 - 9,912
Manganese	138	J	1	33.2	J	1	48	J	1.1	48.6	J	1.1	57.6	J	1.1	26.2		1	0 - 151.8
Mercury		U	0.1		U	0.1		U	0.11		U	0.11		U	0.11		U	0.1	0 - 0.2
Nickel	6.3		4.1	5.1		4.2	5.4		4.2	5.8		4.2	6.2		4.2	3	J	4.1	0 - 9.7
Potassium	1880		510	938		525	1030		527	906		530	708		526	331	J	519	0 - 2,531
Selenium		UJ	1		UJ	1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1	0 - 36.8
Silver		U	1	1.5		1	**4.8**		1.1	1.2		1.1	0.98	J	1.1		U	1	0 - 1.8
Sodium		U	510		U	525		U	527		U	530		U	526		U	519	0 - 834
Thallium		U	1		UJ	1		UJ	1.1		UJ	1.1		UJ	1.1		R		0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.4	NA
Vanadium	13.3		1	8.2		1	10.8		1.1	12.9		1.1	11.6		1.1	5.9		1	1.7 - 25.0
Zinc	**25.3**		2	10.6		2.1	15.6		2.1	9.8		2.1	9.2		2.1	4.5		2.1	0 - 20.7
Aroclor 1254		U	34	75		35		U	35		U	35		U	35		U	34	
4-Methylphenol		U	340	100	J	350		U	350		U	350		U	350				
bis(2-Ethylhexyl)phthalate		U	340	230	J	350		U	350		U	350		U	350		U	340	
Di-n-butyl phthalate		U	340		U	350		U	350		U	350	57	J	350		U	340	
Phenol		U	340	40	J	350		U	350		U	350		U	350		U	340	
2-Butanone (MEK)		U	10	180		21	180		21	3.3	J	11		U	11	3.2	J	10	
2-Hexanone		U	10	8.3	J	21	11	J	21		U	11		U	11		U	10	
4-Methyl-2-pentanone (MIBK)		U	10	230		21	220		21	2.5	J	11		U	11		U	10	
Acetone		U	10	370		21	390		21		U	11	5.9	J	11	6	J	10	
Methylene chloride		U	5.1	5.1	J	10	6.3	J	11		U	5.3		U	5.3		U	5.2	
Toluene	1.4	J	5.1		U	10		U	11		U	5.3		U	5.3		U	5.2	
Total Petroleum Hydrocarbons	72.5		40.8		U	42		U	42.2		U	42.4		U	42.1		U	41.5	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-18

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-17

Chemical	Sample Interval (ft bgs)															Background Range[1]
	19-20.3			25-26.5			35-36.3			45-46.9			53-55			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	6020		21.4	6970		21.4	6070		21.3	3560		10.4	3320		10.4	596 - 10,796
Antimony		R			R		12.8	J	12.8		R			R		0 - 29.6
Arsenic	0.92		0.54	1.3		0.53	1.4		0.53	0.79		0.52	0.55		0.52	0 - 10.5
Barium	**1260**	**J**	2.1	238	J	2.1	**736**	**J**	2.1	59.1	J	1	22.9	J	1	0 - 548
Beryllium	0.37	J	0.43	0.29	J	0.43	0.24	J	0.43	0.11	J	0.21	0.14	J	0.21	0 - 0.6
Cadmium		U	1.1		U	1.1		U	1.1		U	0.52		U	0.52	0 - 2.1
Calcium	**168000**		42.8	131000		42.8	117000		42.5	50100		20.8	23600		20.8	0 - 166,119
Chromium	7.1		2.1	5.9		2.1	3.1		2.1	4.8		1	2.8		1	0.8 - 12.0
Cobalt	2	J	2.1	2	J	2.1	2.3		2.1	1.3		1	1.2		1	0 - 4.0
Copper	3.2	J	4.3	3.4	J	4.3	2.4	J	4.3	1.9	J	2.1	1.5	J	2.1	0 - 10.1
Iron	4890		21.4	5630		21.4	3920		21.3	2720		10.4	2700		10.4	0 - 8,564
Lead	3.7		0.54	5.5		1.1	3.1		1.1	1.5		0.52	2.2		0.52	0 - 18.4
Magnesium	5120		42.8	5660		42.8	7880		42.5	4830		20.8	4070		20.8	0 - 9,912
Manganese	50.7	J	2.1	66	J	2.1	41.2	J	2.1	39.6	J	1	37.4	J	1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.1		U	0.1	0 - 0.2
Nickel	**20.5**		8.6	8.6		8.6	2.5	J	8.5	3.9	J	4.2	3.4	J	4.2	0 - 9.7
Potassium	1810		1070	1590		1070	1270		1060	826		519	749		519	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1		UJ	1	0 - 36.8
Silver		U	2.1		U	2.1		U	2.1		U	1		U	1	0 - 1.8
Sodium		U	1070		U	1070		U	1060		U	519		U	519	0 - 834
Thallium		U	1.1		U	1.1		U	1.1		U	1		U	1	0 - 6.2
Tin	NA			NA			NA			NA			8.7	J	10.4	NA
Vanadium	11.9		2.1	20.4		2.1	16.9		2.1	7.6		1	8.6		1	1.7 - 25.0
Zinc	14.9		4.3	**24.3**		4.3	13.6		4.3	8.3		2.1	7.4		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate		U	350	3800		350		U	350		U	340		U	340	
Di-n-butyl phthalate	37	J	350	69	J	350	48	J	350		U	340		U	340	
Di-n-octyl phthalate		U	350		U	350		U	350	39	J	340		U	340	
Phenol		U	350	47	J	350		U	350		U	340		U	340	
2-Butanone (MEK)		U	11		U	11		U	11	1.9	J	10		U	10	
2-Hexanone	1.5	J	11		U	11		U	11		U	10		U	10	
4-Methyl-2-pentanone (MIBK)		U	11	10	J	11		U	11		U	10		U	10	
Acetone	8.7	J	11	100		11		U	11	8.3	J	10	7.3	J	10	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

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Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-19
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-18

Chemical	Sample Interval (ft bgs)															Background Range[1]
	28-29.9			33-35			45-47			55-56.5			63-63.8			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	4450		21.7	4070		10.8	3120		10.5	3760		10.5	3160		10.6	596 - 10,796
Antimony	14.8	J	13	4.4	J	6.5		R			R			UJ	6.4	0 - 29.6
Arsenic	1.3		0.54	1.6		0.54	0.74		0.53	0.78		0.52	0.71		0.53	0 - 10.5
Barium	104	J	2.2	60.8	J	1.1	106	J	1.1	310	J	1	37.2		1.1	0 - 548
Beryllium	0.25	J	0.43	0.21	J	0.22		U	0.21		U	0.21		U	0.21	0 - 0.6
Cadmium		U	1.1		U	0.54		U	0.53		U	0.52		U	0.53	0 - 2.1
Calcium	144000		43.4	35300		21.6	30700		21.1	32400		21	59700		21.3	0 - 166,119
Chromium	4		2.2	3.2		1.1	2.6		1.1	3.8		1	9.7		1.1	0.8 - 12.0
Cobalt	2.3		2.2	1.8		1.1	1	J	1.1	1.5		1	1.2		1.1	0 - 4.0
Copper	3.2	J	4.3	2.5		2.2	1.2	J	2.1	1.2	J	2.1	1.9	J	2.1	0 - 10.1
Iron	3670		21.7	3460		10.8	2110		10.5	2710		10.5	2990		10.6	0 - 8,564
Lead	3		0.54	3.7		0.54	1.7	J	2.6	2.3		0.52	1.9		0.53	0 - 18.4
Magnesium	3860		43.4	3350		21.6	4170		21.1	4690		21	5830		21.3	0 - 9,912
Manganese	46.3	J	2.2	59.7	J	1.1	26.9	J	1.1	46.1	J	1	37.5		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.1		U	0.11	0 - 0.2
Nickel	6.3	J	8.7	6.5		4.3	3.7	J	4.2	4.1	J	4.2	4.4		4.3	0 - 9.7
Potassium	1160		1080	1170		540	859		527	881		524	553		532	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	0.52		UJ	1.1	0 - 36.8
Silver		U	2.2		U	1.1		U	1.1		U	1		U	1.1	0 - 1.8
Sodium		U	1080		U	540		U	527		U	524		U	532	0 - 834
Thallium		U	1.1		U	1.1		U	0.53		U	0.52	0.19	J	0.53	0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.6	NA
Vanadium	14.2		2.2	17.8		1.1	6.6		1.1	9.5		1	11		1.1	1.7 - 25.0
Zinc	9.4		4.3	8.3		2.2	5.1		2.1	6.5		2.1	5.8		2.1	0 - 20.7
2-Butanone (MEK)		U	11		U	11		U	11	3.5	J	10		U	11	
Acetone		U	11		U	11		U	11		U	10	5.5	J	11	
Toluene	1.4	J	5.4		U	5.4		U	5.3		U	5.2	1.1	J	5.3	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-20

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-19

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			18-20			25-27			35-35.9			45-47			53-56.5			
	Result	Qual.	R.L.	Result	ual	R.L.	Result	Qual	R.L.	Result	Qual.	R.L.	Result	Qual	R.L.	Result	Qual.	R.L.	
Aluminum	5530		10.1	5760		10.8	8250		11.2	3880		10.7	3170		10.5	4220		10.5	596 - 10,796
Antimony		R			UJ	6.5		UJ	6.7		UJ	6.4		UJ	6.3		UJ	6.3	0 - 29.6
Arsenic	2.7		0.5	2.2		0.54	5.8		0.56	1.1		0.54	0.84	J	2.1	0.86	J	2.1	0 - 10.5
Barium	145	J	1	61.3		1.1	54.2		1.1	207		1.1	37.5		1	72.9		1.1	0 - 548
Beryllium		U	0.39		U	0.23	0.59		0.22		U	0.21		U	0.21		U	0.21	0 - 0.6
Cadmium		U	0.5		U	0.54		U	0.56		U	0.54		U	0.52		U	0.53	0 - 2.1
Calcium	33400		20.2	78800		21.6	6740		22.4	85100		21.4	55900		21	54200		21.1	0 - 166,119
Chromium	6.7		1	5.5		1.1	9.3		1.1	4.1		1.1	2.8		1	4.4		1.1	0.8 - 12.0
Cobalt	2.9		1	2.2		1.1	2.1		1.1	1.3		1.1	1.1		1	1.4		1.1	0 - 4.0
Copper	5.2		2	3.4		2.2	5		2.2	1.5	J	2.1	1.1	J	2.1	1.6	J	2.1	0 - 10.1
Iron	5990		10.1	4840		10.8	**8810**		11.2	2710		10.7	2420		10.5	2890		10.5	0 - 8,564
Lead	9.2		1	5.1		0.54	7.3		0.56	2.1		0.54	1		0.52	1.9		0.53	0 - 18.4
Magnesium	1490		20.2	3710		21.6	2730		22.4	3550		21.4	2880		21	5600		21.1	0 - 9,912
Manganese	108	J	1	65.8		1.1	56.2		1.1	35		1.1	28.7		1	40.1		1.1	0 - 151.8
Mercury		U	0.1		U	0.11		U	0.11		U	0.11		U	0.1		U	0.11	0 - 0.2
Nickel	7.2		4	7.3		4.3	8.9		4.5	4.5		4.3		U	4.2	4.4		4.2	0 - 9.7
Potassium	1260		505	1720		540	**2550**		560	706		536	803		525	889		527	0 - 2,531
Selenium		UJ	1		R			R			R			R			UJ	1.1	0 - 36.8
Silver		U	1		U	1.1		U	1.1		U	1.1		U	1	0.32	J	1.1	0 - 1.8
Sodium		U	505	157	J	540	253	J	560		U	536		U	525		U	527	0 - 834
Thallium	0.13	J	0.5	0.16	J	1.1	0.21	J	0.56	0.19	J	0.54		U	0.52	0.19	J	0.53	0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.5	NA
Vanadium	15.9		1	15.6		1.1	**35.6**		1.1	12		1.1	6.7		1	8.5		1.1	1.7 - 25.0
Zinc	17		2	10.6		2.2	16.2		2.2	6.9		2.1	5.8		2.1	7.6		2.1	0 - 20.7
Aroclor 1254	25	J	33		U	36		U	37		U	35		U	35		U	35	
2-Butanone (MEK)	2.7	J	10		U	11	1.9	J	11		U	11		U	10		U	11	
Acetone	13		10		U	11		U	11	6.5	J	11	3.3	J	10	3	J	11	
Toluene	4.4	J	5		U	5.4		U	5.6		U	5.4		U	5.2		U	5.3	
Total Petroleum	43.5		40.4		U	43.2		U	44.8		U	42.9		U	42		U	42.2	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

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Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-21

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-20

Chemical	Sample Interval (ft bgs)															Background Range[1]
	16-17.5			20-22			30-32			40-41.8			52-53			
	Result	Qual.	R.L	Result	Qual.	R.L	Result	Qual.	R.L	Result	Qual.	R.L	Result	Qual.	R.L	
Aluminum	6210		11.2	4140		22.1	3710		11.5	5090		10.8	3740		10.5	596 - 10,796
Antimony		UJ	6.7		UJ	13.2		R			R			UJ	6.3	0 - 29.6
Arsenic	2.3		0.56	1.8		0.55	2		0.58	1.1		0.54	0.5	J	0.52	0 - 10.5
Barium	69.4		1.1	427		2.2	50.7	J	1.2	64.3	J	1.1	88.1		1	0 - 548
Beryllium	0.47		0.22	0.28	J	0.44	0.21	J	0.23	0.14	J	0.22	0.14	J	0.21	0 - 0.6
Cadmium		UJ	0.56		UJ	1.1		UJ	0.58		UJ	0.54		U	0.52	0 - 2.1
Calcium	83400		22.3	**197000**		44.2	44000		23	74600		21.5	31800		20.9	0 - 166,119
Chromium	7.4		1.1	3.8		2.2	4.1		1.2	4		1.1	4.5		1	0.8 - 12.0
Cobalt	2.9		1.1	2	J	2.2	2		1.2	1.2		1.1	1.4		1	0 - 4.0
Copper	**23.5**		2.2	3	J	4.4	2.9		2.3	2.7		2.2	2.6		2.1	0 - 10.1
Iron	6000		11.2	3200		22.1	3120		11.5	3010		10.8	3130		10.5	0 - 8,564
Lead	9.3		1.1	3.9		0.55	3.6		0.58	1.7		0.54	2.1		0.52	0 - 18.4
Magnesium	4080		22.3	5660		44.2	2430		23	9300		21.5	4950		20.9	0 - 9,912
Manganese	40.2		1.1	38.3		2.2	56.7	J	1.2	28.1	J	1.1	42.6		1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.12		U	0.11		U	0.1	0 - 0.2
Nickel	7.4		4.5	5.6	J	8.8	5.4		4.6	4.3		4.3	4.1	J	4.2	0 - 9.7
Potassium	1920		559	1040	J	1100	964		575	973		538	767		523	0 - 2,531
Selenium		R			R			UJ	1.2		UJ	1.1		UJ	1	0 - 36.8
Silver		U	1.1		U	2.2		U	1.2		U	1.1		U	1	0 - 1.8
Sodium	233	J	559		U	1100		U	575		U	538		U	523	0 - 834
Thallium		U	1.1		U	2.2		U	1.2		U	1.1		R		0 - 6.2
Tin	NA			NA			NA			NA			9.8	J	10.5	NA
Vanadium	21.8		1.1	12.4		2.2	13.3		1.2	12.4		1.1	9		1	1.7 - 25.0
Zinc	12.1		2.2	10.3		4.4	8.1		2.3	7.3		2.2	7.4		2.1	0 - 20.7

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-22
METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-21

Chemical	Sample Interval (ft bgs)														
	22-22.9			27-29			35-35.8			45-46.8			57-58.8		
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.
Aluminum	2730	J	10.7	3220		22.6	3870		21.8	4940		10.4	4340		10.7
Antimony		UJ	6.4		U	13.5		U	13.1		U	6.2		U	6.4
Arsenic	0.97		0.54	0.65		0.56	0.91		0.54	0.39	J	0.52	0.34	J	0.53
Barium	377	J	1.1	180		2.3	293		2.2	91.5		1	277		1.1
Beryllium	0.17	J	0.21		U	0.45		U	0.44		U	0.21	0.13	J	0.21
Cadmium	0.69		0.54		U	1.1		U	1.1		U	0.52		U	0.53
Calcium	**254000**	**J**	21.4	**173000**	**J**	45.1	164000		43.5	39200	J	20.8	35800	J	21.4
Chromium	3	J	1.1	2.1	J	2.3	5.4		2.2	10.9		1	6.4		1.1
Cobalt	0.9	J	1.1		U	2.3	1.6	J	2.2	1		1	1.3		1.1
Copper	0.91	J	2.1	1.2	J	4.5	6.4		4.4	1.5	J	2.1	1.6	J	2.1
Iron	2220	J	10.7	1660		22.6	2340		21.8	3740		10.4	3040		10.7
Lead	2.7		0.54	2		0.56	2.6		0.54	1.7		0.52	1.4		0.53
Magnesium	3660	J	21.4	5870	J	45.1	8910	J	43.5	3960	J	20.8	5490	J	21.4
Manganese	20.8	J	1.1	20.3		2.3	26.7		2.2	35.9		1	37.7		1.1
Mercury		U	0.11		U	0.11		U	0.11		U	0.1		U	0.11
Nickel	2.6	J	4.3	5.2	J	9		UJ	8.7		UJ	4.2		UJ	4.3
Potassium	775		535	504	J	1130	615	J	1090	1140		520	764		534
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1		UJ	1.1
Silver	1.2		1.1		UJ	2.3		UJ	2.2		UJ	1		UJ	1.1
Sodium		U	535		U	1130		U	1090		U	520		U	534
Thallium	0.12	J	1.1	0.14	J	1.1		UJ	1.1	0.17	J	1	0.17	J	0.53
Tin	NA			NA			NA			NA			NA	U	10.7
Vanadium	10.6		1.1	20.2		2.3	15		2.2	9.2		1	12.8		1.1
Zinc	6.5	J	2.1	5.1		4.5	6.8		4.4	7.4		2.1	6.5		2.1
bis(2-Ethylhexyl)phthalate	110	J	350	240	J	370	100	J	360		U	340		U	350
1,1,2,2-Tetrachloroethane	2.3	J	5.4	8.2		5.6		U	5.4	3.5	J	5.2	3.1	J	5.3
Acetone	5.6	J	11		U	11	16		11	7	J	10		U	11
Methylene chloride		U	5.4		U	5.6		U	5.4		U	5.2	2.8	J	5.3

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-23

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-22

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			18-20			25-25.5			35-36.2			45-45.9			56.5-58.5			
	Result	Qual	R.L.	Result	ual	R.L.	Result	Qual	R.L.	Result	ual	R.L.	Result	ual	R.L.	Result	ual	R.L.	
Aluminum	6010		10.2	5360		10.3	7190		21.8	5090		21.2	3880		10.4	4380		10.6	596 - 10,796
Antimony	5.2	J	6.1		U	6.2	11	J	13.1		U	12.7		U	6.3		UJ	6.4	0 - 29.6
Arsenic	2.3		0.51	1.1		0.51	0.75		0.55	0.97		0.53	0.68		0.52	0.75		0.53	0 - 10.5
Barium	226	J	1	115	J	1	137	J	2.2	94.3	J	2.1	84.2	J	1	32.7		1.1	0 - 548
Beryllium	0.45		0.2	0.29		0.21	0.33	J	0.44		U	0.42	0.12	J	0.21	0.17	J	0.21	0 - 0.6
Cadmium		U	0.51		U	0.51		U	1.1		U	1.1		U	0.52		U	0.53	0 - 2.1
Calcium	83300		20.5	36900		20.6	**207000**		43.7	150000		42.4	59000		20.9	53300		21.2	0 - 166,119
Chromium	5		1	4.2		1	6.4		2.2	2.2		2.1	2.3		1	3.6		1.1	0.8 - 12.0
Cobalt	3.1		1	2		1	2.4		2.2		U	2.1	0.87	J	1	1.2		1.1	0 - 4.0
Copper	5.5		2	2.3		2.1	3.1	J	4.4	2	J	4.2	1.4	J	2.1	1.5	J	2.1	0 - 10.1
Iron	5510		10.2	4250		10.3	4090		21.8	3180		21.2	2860		10.4	3090		10.6	0 - 8,564
Lead	**78.2**		5.1	3.7		0.51	2.6		0.55	2.3		0.53	1.9		0.52	2.4	J	0.53	0 - 18.4
Magnesium	2270		20.5	3140		20.6	**10200**		43.7	6560		42.4	4430		20.9	6800		21.2	0 - 9,912
Manganese	129	J	1	41.8	J	1	44.1	J	2.2	27.9	J	2.1	31	J	1	39.6		1.1	0 - 151.8
Mercury		U	0.1		U	0.1		U	0.11		U	0.11		U	0.1		U	0.11	0 - 0.2
Nickel	7.1		4.1	8.1		4.1	9		8.7	5.9	J	8.5	3.8	J	4.2	3.7	J	4.2	0 - 9.7
Potassium	1390		512	1540		514	1280		1090	976	J	1060	816		522	760		530	0 - 2,531
Selenium		UJ	1		UJ	1		UJ	1.1		UJ	1.1		UJ	1		UJ	1.1	0 - 36.8
Silver		U	1		U	1		U	2.2		U	2.1		U	1		U	1.1	0 - 1.8
Sodium		U	512		U	514		U	1090		U	1060		U	522		U	530	0 - 834
Thallium		UJ	1	0.13	J	1		UJ	2.2		UJ	2.1		UJ	1		R		0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.6	NA
Vanadium	15.8		1	11.9		1	16.5		2.2	11		2.1	7.4		1	13.9		1.1	1.7 - 25.0
Zinc	**22.1**		2	10.8		2.1	14.4		4.4	9.9		4.2	7.9		2.1	8		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate		U	340		U	340		U	360		U	350		U	340	42	J	350	
2-Butanone (MEK)		U	10		U	10	6.6	J	11		U	11		U	10		U	11	
Acetone		U	10	7	J	10	31	J	11	5.7	J	11	7.1	J	10		U	11	
Toluene		U	5.1		U	5.1		U	5.5		U	5.3	4.8	J	5.2		U	5.3	
Total Petroleum	51		41		U	41.1		U	43.7		U	42.4		U	41.8		U	42.4	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-24

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICALS COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico
BORING 113-23

Chemical	Sample Interval (ft bgs)															Background Range[1]
	19-20.5			24-26			35-36.3			45-47			54-55.1			
	Result	Qual	R.L.	Result	ual	R.L.	Result	Qual	R.L.	Result	ual	R.L.	Result	Qual	R.L.	
Aluminum	5530		55.8	6410		22.3	5380		22	5170		10.5	4990		10.5	596 - 10,796
Antimony		U	33.5		U	13.4		U	13.2		U	6.3		UJ	6.3	0 - 29.6
Arsenic	1.3		0.56	1.2		0.56	1.5		0.55	0.76		0.52	0.75		0.53	0 - 10.5
Barium	194	J	5.6	**608**	**J**	2.2	113	J	2.2	41.1	J	1	47.1		1.1	0 - 548
Beryllium		U	1.1	0.31	J	0.45	0.24	J	0.44	0.15	J	0.21	0.15	J	0.21	0 - 0.6
Cadmium		U	2.8		U	1.1		U	1.1		U	0.52		U	0.53	0 - 2.1
Calcium	**251000**		112	129000		44.7	**174000**		44	28400		21	32800		21.1	0 - 166,119
Chromium		U	5.6	5.3		2.2	7.5		2.2	4.2		1	7.9		1.1	0.8 - 12.0
Cobalt		U	5.6	1.8	J	2.2	2	J	2.2	1.4		1	1.7		1.1	0 - 4.0
Copper	6.2	J	11.2	7.4		4.5	3.6	J	4.4	1.7	J	2.1	3		2.1	0 - 10.1
Iron	3430		55.8	4160		22.3	3620		22	3870		10.5	4080		10.5	0 - 8,564
Lead	3.1		0.56	3.7		0.56	2.3		0.55	2.2		0.52	2.4		0.53	0 - 18.4
Magnesium	7100		112	7660		44.7	8950		44	4160		21	4630		21.1	0 - 9,912
Manganese	56.1	J	5.6	32.6	J	2.2	39.9	J	2.2	44.2	J	1	47.4		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.1		U	0.11	0 - 0.2
Nickel	6.5	J	22.3	7.2	J	8.9	4	J	8.8	3.6	J	4.2	4.2		4.2	0 - 9.7
Potassium	1410	J	2790	1290		1120	906	J	1100	1100		524	1010		526	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1		UJ	1.1	0 - 36.8
Silver		U	5.6		U	2.2		U	2.2		U	1		U	1.1	0 - 1.8
Sodium		U	2790		U	1120		U	1100		U	524		U	526	0 - 834
Thallium		UJ	2.2		UJ	1.1		UJ	2.2		UJ	0.52		R		0 - 6.2
Tin	NA			NA			NA			NA			8.9	J	10.5	NA
Vanadium	14		5.6	22.3		2.2	20.1		2.2	9.7		1	10.7		1.1	1.7 - 25.0
Zinc	13.3		11.2	13		4.5	9		4.4	8.5		2.1	9.1		2.1	0 - 20.7
Acetone	6.7	J	11		U	11	24		11		U	10		U	11	
Methylene chloride		U	5.6	1.2	J	5.6		U	5.5		U	5.2	1.1	J	5.3	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-25

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-24

Chemical	Sample Interval (ft bgs)															Background Range[1]
	24-26			29-29.8			40-42			50-50.8			59-60			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	3310		22.1	4490		21.7	4230		10.8	3500		10.5	3600		10.8	596 - 10,796
Antimony		UJ	13.3		UJ	13		UJ	6.5		UJ	6.3		UJ	6.5	0 - 29.6
Arsenic	0.7		0.55	0.74		0.54	0.12	J	0.54	0.73		0.52	0.68		0.54	0 - 10.5
Barium	103		2.2	367		2.2	56.2		1.1	147		1	251		1.1	0 - 548
Beryllium		U	0.44		U	0.43	0.13	J	0.22		U	0.21		U	0.22	0 - 0.6
Cadmium		U	1.1		U	1.1		U	0.54		U	0.52		U	0.54	0 - 2.1
Calcium	**185000**		44.2	145000		43.4	49200		21.6	69000		21	71800		21.5	0 - 166,119
Chromium	2.2	J	2.2	3.7	J	2.2	3.5	J	1.1	4.6	J	1	6.7	J	1.1	0.8 - 12.0
Cobalt	2	J	2.2	1.8	J	2.2	1.4		1.1	1.1		1	1.5		1.1	0 - 4.0
Copper	2.3	J	4.4	**41.9**		4.3	2.1	J	2.2	2.1		2.1	7.9		2.2	0 - 10.1
Iron	2000	J	22.1	3040	J	21.7	2880	J	10.8	2330	J	10.5	2370	J	10.8	0 - 8,564
Lead	2.2	UJ	1.1	12.2	J	1.1	1.9	J	1.1	2	J	1	2.2	J	0.54	0 - 18.4
Magnesium	3910	J	44.2	4370	J	43.4	5190	J	21.6	5440	J	21	9230	J	21.5	0 - 9,912
Manganese	30.2	J	2.2	32.3	J	2.2	47.7	J	1.1	29.1	J	1	39.7	J	1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.1		U	0.11	0 - 0.2
Nickel	3.4	J	8.8	6.1	J	8.7	4.9	J	4.3	3.4	J	4.2	4	J	4.3	0 - 9.7
Potassium	547	J	1110	631	J	1090	1090		539	788		524	648		538	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1		UJ	1.1	0 - 36.8
Silver		U	2.2		U	2.2		U	1.1		U	1		U	1.1	0 - 1.8
Sodium		U	1110		U	1090		U	539		U	524		U	538	0 - 834
Thallium		UJ	1.1	0.12	J	1.1		UJ	0.54		UJ	1		UJ	0.54	0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.8	NA
Vanadium	9.1		2.2	12.8		2.2	11.6		1.1	9.3		1	14.1		1.1	1.7 - 25.0
Zinc	6.9	J	4.4	11.9	J	4.3	8.9	J	2.2	5.8	J	2.1	5.8	J	2.2	0 - 20.7
4-Methylphenol		U	370	68	J	360		U	360		U	350				
bis(2-Ethylhexyl)phthalate		U	370	65	J	360		U	360		U	350		U	360	
Butyl benzyl phthalate		U	370	40	J	360		U	360		U	350		U	360	
2-Butanone (MEK)	2.5	J	11	22		11		U	11	4.7	J	10	5.6	J	11	
2-Hexanone		U	11	3.4	J	11		U	11		U	10		U	11	
4-Methyl-2-pentanone		U	11		U	11		U	11		U	10		U	11	

TABLE 4-25

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-24

Chemical	Sample Interval (ft bgs)															Background Range[1]
	24-26			29-29.8			40-42			50-50.8			59-60			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Acetone	4.4	J	11	57		11		U	11	9.3	J	10	9.9	J	11	
Toluene		U	5.5		U	5.4	1.8	J	5.4		U	5.2		U	5.4	
Total Petroleum Hydrocarbons		U	44.2	164		43.4		U	43.1		U	41.9		U	43.1	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-26

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/ORP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-25

Chemical	Sample Interval (ft bgs)																		Backgroun Range[1]
	0-.5			24-26			30-30.9			40-42			50-50.5			60-62			
	Result	Qual	R.L.	Result	Qual.	R.L.	Result	Qual	R.L.	Result	Qual	R.L.	Result	ual	R.L.	Result	Qual	R.L.	
Aluminum	7950		20.6	7690		11.3	7740		24.2	5570		10.8	4880		11.1	4070		10.7	596 - 10,796
Antimony		UJ	12.4	5.2	J	6.8		UJ	14.5		UJ	6.5		UJ	6.6		UJ	6.4	0 - 29.6
Arsenic	1.7		0.52	0.84		0.56	1.1		0.6	0.82		0.54	0.91		0.55	0.79		0.54	0 - 10.5
Barium	281	J	2.1	103		1.1	386		2.4	56.3		1.1	263		1.1	42.1		1.1	0 - 548
Beryllium	0.45		0.41	0.35		0.23	0.28	J	0.48	0.19	J	0.22	0.18	J	0.22	0.16	J	0.21	0 - 0.6
Cadmium		U	1		U	0.56		U	1.2		U	0.54		U	0.55		U	0.54	0 - 2.1
Calcium	118000		41.3	74700		22.5	143000		48.4	48900		21.7	81200		22.2	52500		21.4	0 - 166,119
Chromium	5.2		2.1	5.1	J	1.1	**14.1**	**J**	2.4	3.4	J	1.1	5.8	J	1.1	3		1.1	0.8 - 12.0
Cobalt	3.2		2.1	2.3		1.1	2.4		2.4	1.6		1.1	1.5		1.1	1.2		1.1	0 - 4.0
Copper	4.3		4.1	2.2	J	2.3	4.3	J	4.8	1.7	J	2.2	2.3		2.2	1.5	J	2.1	0 - 10.1
Iron	6140		20.6	5650	J	11.3	6290	J	24.2	3310	J	10.8	3310	J	11.1	2600		10.7	0 - 8,564
Lead	5.2		0.52	3.9	J	0.56	4.4	J	0.6	3.3	J	0.54	2.9	J	0.55	2.1		0.54	0 - 18.4
Magnesium	4090		41.3	5290	J	22.5	**13000**	**J**	48.4	7440	J	21.7	7540	J	22.2	5980		21.4	0 - 9,912
Manganese	81.8	J	2.1	52.2	J	1.1	55.9	J	2.4	33.8	J	1.1	37.4	J	1.1	41		1.1	0 - 151.8
Mercury		U	0.1		U	0.11		U	0.12		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	6.6	J	8.3	7.1	J	4.5	**68.6**	**J**	9.7	5.4	J	4.3	5.5	J	4.4	3.7	J	4.3	0 - 9.7
Potassium	2100		1030	1470		563	1300		1210	1160		542	1030		554	758		535	0 - 2,531
Selenium		UJ	1		UJ	1.1		UJ	1.2		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		U	2.1		U	1.1		U	2.4		U	1.1		U	1.1		U	1.1	0 - 1.8
Sodium		U	1030		U	563		U	1210		U	542		U	554		U	535	0 - 834
Thallium		UJ	1		UJ	1.1		UJ	2.4		UJ	1.1		UJ	1.1		R		0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.7	NA
Vanadium	17.1		2.1	15.2		1.1	19.4		2.4	11.8		1.1	11.2		1.1	11.9		1.1	1.7 - 25.0
Zinc	17.6		4.1	14	J	2.3	**59**	**J**	4.8	9.2	J	2.2	8.9	J	2.2	7.7		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate		U	340		U	370		U	400		U	360		U	370	160	J	350	
Acetone		U	10		UJ	11		UJ	12		UJ	11	4.1	J	11	4.9	J	11	
Toluene		U	5.2		U	5.6		U	6		U	5.4		U	5.5	1.7	J	5.4	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-27

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico
BORING 113-26

Chemical	Sample Interval (ft bgs)															Background Range[1]
	21.5-23			27-29			37-39			47-47.5			55-56.5			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	7090		21.9	6720		22.1	3520		10.8	4340		11.1	3210		10.6	596 - 10,796
Antimony		UJ	13.1		UJ	13.2		UJ	6.5		UJ	6.7		UJ	6.3	0 - 29.6
Arsenic	0.95		0.55	1.3		0.55	0.73		0.54	0.49	J	1.1	0.43	J	0.53	0 - 10.5
Barium	187		2.2	342		2.2	43.9		1.1	94.6		1.1	93.6		1.1	0 - 548
Beryllium		U	0.44		U	0.44		U	0.22		U	0.22		U	0.21	0 - 0.6
Cadmium		UJ	1.1		UJ	1.1		UJ	0.54		UJ	0.56		UJ	0.53	0 - 2.1
Calcium	163000		43.8	**167000**		44.1	62600		21.5	99300		22.2	32600		21.1	0 - 166,119
Chromium	11.1	J	2.2	11.6	J	2.2	3.4	J	1.1	**15.6 J**		1.1	10.2		1.1	0.8 - 12.0
Cobalt	2.2		2.2	2.2		2.2	1.5		1.1	2.1		1.1	1.4		1.1	0 - 4.0
Copper	2.4	J	4.4	2.7	J	4.4	1.5	J	2.2	4.3		2.2	2.3		2.1	0 - 10.1
Iron	4560	J	21.9	4600	J	22.1	2560	J	10.8	3370	J	11.1	2640		10.6	0 - 8,564
Lead	3	J	0.55	4.2	J	0.55	1.7	J	0.54	1.6	J	0.56	1.3		0.53	0 - 18.4
Magnesium	5700	J	43.8	5390	J	44.1	4180	J	21.5	**16300 J**		22.2	3980		21.1	0 - 9,912
Manganese	48.5	J	2.2	51.9	J	2.2	24.1	J	1.1	52.8	J	1.1	46.6		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	7.1	J	8.8	7	J	8.8	4.3	J	4.3	5	J	4.4	3.2	J	4.2	0 - 9.7
Potassium	1090		1090	1160		1100	735		538	679		555	585		528	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		U	2.2		U	2.2		U	1.1		U	1.1		U	1.1	0 - 1.8
Sodium		U	1090		UJ	1100		U	538		U	555		U	528	0 - 834
Thallium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	2.2		R		0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.6	NA
Vanadium	16.3		2.2	15.7		2.2	10.6		1.1	18.7		1.1	9.4		1.1	1.7 - 25.0
Zinc	11.8	J	4.4	11.8	J	4.4	5.7	J	2.2	6.6	J	2.2	6.1		2.1	0 - 20.7
bis(2-Ethylhexyl)phthalate		U	360	43	J	360		U	360		U	370		U	350	
2-Butanone (MEK)	17		11		U	11		U	11		U	11		U	11	
Acetone	130	J	11	11	J	11		UJ	11	26	J	11		U	11	
Methylene chloride	1.3	J	5.5		U	5.5		U	5.4		U	5.6		U	5.3	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-28

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-27

Chemical	Sample Interval (ft bgs)															Background Range[1]
	21-23			24.5-26.5			34.5-36.5			44.5-46			57.5-58.1			
	Result	ual	R.L.	Result	ual	R.L.	Result	Qual	R.L.	Result	Qual	R.L.	Result	Qual.	R.L.	
Aluminum	4410		10.8	5030		10.7	6270		10.9	3460		10.6	3060		10.4	596 - 10,796
Antimony		UJ	6.5		UJ	6.4		UJ	6.5		UJ	6.3		UJ	6.3	0 - 29.6
Arsenic	3.9		0.54	4.4		0.53	1.2		0.54	0.32	J	1.1	0.49	J	1	0 - 10.5
Barium	92		1.1	225		1.1	164		1.1	135		1.1	31		1	0 - 548
Beryllium	0.31		0.22	0.3		0.21	0.25		0.22		U	0.21		U	0.21	0 - 0.6
Cadmium		UJ	0.54		UJ	0.53		UJ	0.54		UJ	0.53		UJ	0.52	0 - 2.1
Calcium	43800		21.6	48200		21.4	57900		21.8	51900		21.1	68700		20.9	0 - 166,119
Chromium	7.1	J	1.1	8.5	J	1.1	5.5	J	1.1	3.5	J	1.1	5.2		1	0.8 - 12.0
Cobalt	1.9		1.1	2.3		1.1	0.98	J	1.1	1.5		1.1	1.3		1	0 - 4.0
Copper	3.4		2.2	4.2		2.1	2.6		2.2	1.9	J	2.1	1.8	J	2.1	0 - 10.1
Iron	5230	J	10.8	5230	J	10.7	4150	J	10.9	2340	J	10.6	2180		10.4	0 - 8,564
Lead	4.2	J	0.54	4	J	0.53	2.1	J	0.54	0.63	J	0.53	1.4		1	0 - 18.4
Magnesium	2240	J	21.6	3200	J	21.4	9100	J	21.8	6340	J	21.1	5060		20.9	0 - 9,912
Manganese	40.7	J	1.1	95.6	J	1.1	38	J	1.1	30.5	J	1.1	36.3		1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.1	0 - 0.2
Nickel	6.3	J	4.3	6.2	J	4.3	4.2	J	4.4	3.6	J	4.2	2.8	J	4.2	0 - 9.7
Potassium	1380		541	1250		534	1100		545	698		528	535		522	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1	0 - 36.8
Silver		U	1.1		U	1.1		U	1.1		U	1.1		U	1	0 - 1.8
Sodium		U	541		U	534		U	545		U	528		U	522	0 - 834
Thallium		UJ	0.54		UJ	1.1		UJ	1.1		UJ	0.53		R		0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.4	NA
Vanadium	**36.7**		1.1	**31.1**		1.1	17.6		1.1	7.4		1.1	8.7		1	1.7 - 25.0
Zinc	12.7	J	2.2	14.3	J	2.1	10.2	J	2.2	6.6	J	2.1	5.3		2.1	0 - 20.7
Acetone	5	J	11		U	11	17		11	4.2	J	11	11		10	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

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* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-29

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-28

Chemical	Sample Interval (ft bgs)																		Background Range[1]
	0-.5			20-21.5			25-27			35-37			45-47			55-57			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	ual	R.L.	
Aluminum	9700		10.4	3720	J	55.5	7070	J	22.4	6250	J	10.9	4600	J	10.4	4340		10.5	596 - 10,796
Antimony		R			UJ	33.3		UJ	13.5		UJ	6.5		UJ	6.2		UJ	6.3	0 - 29.6
Arsenic	1.7		0.52	0.93		0.56	0.81		0.56	0.52	J	1.1	0.43	J	0.52	0.36	J	1	0 - 10.5
Barium	281	J	1	201	J	5.6	170	J	2.2	95	J	1.1	49.7	J	1	30.6		1	0 - 548
Beryllium	0.46		0.21		U	1.1	0.29	J	0.45	0.21	J	0.22	0.13	J	0.21	0.13	J	0.21	0 - 0.6
Cadmium		UJ	0.52		U	2.8		U	1.1		UJ	0.54		UJ	0.52		UJ	0.52	0 - 2.1
Calcium	78500		20.7	**284000**		111	131000		44.8	61100		21.8	27000		20.8	17100		21	0 - 166,119
Chromium	7.4		1		U	5.6	4.4		2.2	4.6		1.1	3.9		1	3.9		1	0.8 - 12.0
Cobalt	3.3		1		U	5.6	3		2.2	1.1		1.1	1.6		1	1.3		1	0 - 4.0
Copper	6.3		2.1	3.3	J	11.1	2.4	J	4.5	1.8	J	2.2	1.5	J	2.1	1.6	J	2.1	0 - 10.1
Iron	7520		10.4	2360	J	55.5	4150	J	22.4	4230	J	10.9	3590	J	10.4	3320		10.5	0 - 8,564
Lead	9.6		1	1.8		0.56	2.7		0.56	2.5		0.54	1.8		0.52	1.8		0.52	0 - 18.4
Magnesium	3050		20.7	4610		111	6380		44.8	5860		21.8	3760		20.8	4060		21	0 - 9,912
Manganese	130	J	1	22.1	J	5.6	39.1	J	2.2	38.1	J	1.1	44.3	J	1	42.6		1	0 - 151.8
Mercury		U	0.1		U	0.11		U	0.11		U	0.11		U	0.1		U	0.1	0 - 0.2
Nickel	7.5		4.1		U	22.2	6.9	J	9	3.5	J	4.4	3.7	J	4.2	2.5	J	4.2	0 - 9.7
Potassium	2210		518	855	J	2780	1100	J	1120	1120		544	963		521	853		524	0 - 2,531
Selenium		UJ	1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1		UJ	0.52	0 - 36.8
Silver		U	1		UJ	5.6		UJ	2.2		UJ	1.1		UJ	1		U	1	0 - 1.8
Sodium		U	518		U	2780		U	1120		U	544		U	521		U	524	0 - 834
Thallium		U	1		UJ	2.2		UJ	1.1		UJ	1.1		UJ	0.52		R		0 - 6.2
Tin	NA			NA			NA			NA			NA			NA	U	10.5	NA
Vanadium	17.3		1	9.4		5.6	13.5		2.2	15.9		1.1	9.1		1	9.7		1	1.7 - 25.0
Zinc	**21.8**		2.1	10.3	J	11.1	10.5		4.5	10		2.2	8		2.1	7.7		2.1	0 - 20.7
Acetone		U	10		U	11	6	J	11	3	J	11	1.9	J	10		U	10	
Total Organic Carbon	0.57		0.2																
Total Petroleum Hydrocarbons	85.6		41.4		U	44.4		U	44.8		U	43.5		U	41.6		U	41.9	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

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* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-30

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-29

Chemical	Sample Interval (ft bgs)															Background Range[1]
	14-16			20-22			30-32			40-42			50-51.8			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	7560	J	11.3	6030	J	22.6	5290	J	10.9	4540	J	22	4080		11	596 - 10,796
Antimony		UJ	6.8		UJ	13.5		UJ	6.5		UJ	13.2		UJ	6.6	0 - 29.6
Arsenic	1.7		0.56	0.89		0.56	0.74		0.54	0.84		0.55	0.56		0.55	0 - 10.5
Barium	**1920**	**J**	1.1	**922**	**J**	2.3	130	J	1.1	90.1	J	2.2	50.9		1.1	0 - 548
Beryllium	0.49		0.23	0.31	J	0.45	0.16	J	0.22		U	0.44	0.14	J	0.22	0 - 0.6
Cadmium		U	0.56		U	1.1		UJ	0.54		U	1.1		UJ	0.55	0 - 2.1
Calcium	74700		22.6	**186000**		45.1	78500		21.8	124000		44	62000		21.9	0 - 166,119
Chromium	6.1		1.1	3.6		2.3	4.7		1.1	3.9		2.2	5.3		1.1	0.8 - 12.0
Cobalt	2.2		1.1	1.9	J	2.3	1.4		1.1	2.2		2.2	1	J	1.1	0 - 4.0
Copper	3.8		2.3	2.7	J	4.5	1.7	J	2.2	2.1	J	4.4	1.6	J	2.2	0 - 10.1
Iron	5590	J	11.3	3570	J	22.6	3610	J	10.9	3320	J	22	3440		11	0 - 8,564
Lead	5.8		0.56	2.9		0.56	2.3		0.54	1.8		0.55	2		0.55	0 - 18.4
Magnesium	3650		22.6	5330		45.1	5800		21.8	5150		44	5410		21.9	0 - 9,912
Manganese	74.3	J	1.1	33.7	J	2.3	36.3	J	1.1	41.8	J	2.2	36.7		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	8.3		4.5	5.6	J	9	4.6		4.4	4.5	J	8.8	4.1	J	4.4	0 - 9.7
Potassium	2040		565	1290		1130	886		544	757	J	1100	679		548	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1		UJ	1.1	0 - 36.8
Silver		UJ	1.1		UJ	2.3		UJ	1.1		UJ	2.2		U	1.1	0 - 1.8
Sodium		U	565		U	1130		U	544		U	1100		U	548	0 - 834
Thallium	0.12	J	1.1		UJ	2.3		UJ	1.1	0.13	J	1.1		R		0 - 6.2
Tin	NA			NA			NA			NA			NA	U	11	NA
Vanadium	16.3		1.1	10.9		2.3	13.7		1.1	9		2.2	9.7		1.1	1.7 - 25.0
Zinc	13.4		2.3	10.2		4.5	8		2.2	8.6		4.4	7.8		2.2	0 - 20.7
Acetone	6.3	J	11		UJ	11		U	11		U	11	4.3	J	11	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

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TABLE 4-31

METALS RESULTS AND DETECTED CONCENTRATIONS FOR OTHER CHEMICAL COMPOUNDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BORING 113-30

Chemical	Sample Interval (ft bgs)															Background[1] Range
	14.5-16.5			20-21.3			30-32			40-42			50-52			
	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	Result	Qual.	R.L.	
Aluminum	7330	J	11.2	3690	J	54.6	4680	J	11	4240	J	10.7	3450		10.6	596 - 10,796
Antimony		UJ	6.7		UJ	32.8		UJ	6.6		UJ	6.4		UJ	6.3	0 - 29.6
Arsenic	1.6		0.56	0.82		0.55	0.54	J	1.1	0.55		0.54	0.34	J	1.1	0 - 10.5
Barium	279	J	1.1	**3470**	**J**	5.5	168	J	1.1	125	J	1.1	26.8		1.1	0 - 548
Beryllium	0.48		0.22		U	1.1		U	0.22		U	0.21		U	0.21	0 - 0.6
Cadmium		UJ	0.56		UJ	2.7		UJ	0.55		UJ	0.54		UJ	0.53	0 - 2.1
Calcium	69200		22.3	**229000**		109	100000		22	45100		21.4	14900		21.2	0 - 166,119
Chromium	7.6		1.1		U	5.5	4.9		1.1	4.1		1.1	4.1		1.1	0.8 - 12.0
Cobalt	2.9		1.1		U	5.5	1.4		1.1	1.4		1.1	1.3		1.1	0 - 4.0
Copper	4.3		2.2		U	10.9	1.8	J	2.2	2.3		2.1	1.5	J	2.1	0 - 10.1
Iron	6560	J	11.2	2690	J	54.6	2960	J	11	2830	J	10.7	2710		10.6	0 - 8,564
Lead	5.4		2.8	1.9		0.55	2.1		0.55	1.4		0.54	1.2		0.53	0 - 18.4
Magnesium	4500		22.3	4450		109	7580		22	5720		21.4	4400		21.2	0 - 9,912
Manganese	81	J	1.1	22.6	J	5.5	28.3	J	1.1	34.8	J	1.1	33.4		1.1	0 - 151.8
Mercury		U	0.11		U	0.11		U	0.11		U	0.11		U	0.11	0 - 0.2
Nickel	**23.9**		4.5		U	21.8	3.7	J	4.4	3.8	J	4.3	3.1	J	4.2	0 - 9.7
Potassium	2200		559	683	J	2730	729		550	887		535	707		529	0 - 2,531
Selenium		UJ	1.1		UJ	1.1		UJ	11		UJ	1.1		UJ	1.1	0 - 36.8
Silver		UJ	1.1		UJ	5.5		UJ	1.1		UJ	1.1		U	1.1	0 - 1.8
Sodium		U	559		UJ	2730		U	550		U	535		U	529	0 - 834
Thallium		UJ	1.1		UJ	2.2		UJ	1.1		UJ	1.1		R		0 - 6.2
Tin	NA			NA			NA			NA			NA	U	10.6	NA
Vanadium	18.1		1.1	9.9		5.5	17.1		1.1	7.5		1.1	7.9		1.1	1.7 - 25.0
Zinc	13.7		2.2	8.5	J	10.9	7.1		2.2	7.8		2.1	6.1		2.1	0 - 20.7
Acetone		U	11	55		11		U	11	7.2	J	11	5.2	J	11	

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB, New Mexico.

U = Not Detected J = Estimated Value UJ = Estimated Reporting Limit NA = Not Analyzed

Results that are shaded and in bold are concentrations above the maximum background range.

* Metals concentrations are in milligrams per kilogram (mg/kg), organic concentrations are in micrograms per kilogram (µg/kg)

TABLE 4-32
METALS CONCENTRATIONS THAT EXCEEDED THE BACKGROUND RANGE IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	113-01			113-02		113-03		113-04			113-05			Background Range (mg/kg)
CHEMICAL	28 ft.[1]	45 ft.	63 ft.	14 ft.	20 ft.	23 ft.	28 ft.	0 ft.	20 ft.	35 ft.	24 ft.	29 ft.	39 ft.	
Aluminum					11100									593-10,796
Barium		5050 J												0-548
Beryllium								.7						0-0.6
Calcium	167000			172000		222000 J	177000 J					204000 J		0-166,119
Chromium													29.4	0.8-12.0
Cobalt								5						0-4.0
Copper			63.6											0-10.1
Iron								9610						0-8,654
Lead														0-18.4
Magnesium										13800 J				0-9,912
Manganese								275 J						0-151.8
Nickel						22.4 J			10.4		392			0-9.7
Potassium					2550			2970						0-2,531
Silver														0-1.8
Sodium														0-834
Vanadium														1.7-25.0
Zinc								28.2			46.7			0-20.7

TABLE 4-32
METALS CONCENTRATIONS THAT EXCEEDED THE BACKGROUND RANGE IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	113-06	113-07	113-08		113-10			113-11	113-12		113-13		Background Range (mg/kg)
CHEMICAL	20 ft.	24 ft.	20 ft.	25 ft.	29 ft.	34 ft.	64 ft.	35 ft.	27 ft.	34 ft.	0 ft.	40 ft.	
Aluminum													593-10,796
Barium						595				654 J			0-548
Beryllium													0-0.6
Calcium	251000 J								190000	179000			0-166,119
Chromium						40.7	30.7						0.8-12.0
Cobalt													0-4.0
Copper	27.5												0-10.1
Iron						9580							0-8,654
Lead													0-18.4
Magnesium												10600 J	0-9,912
Manganese													0-151.8
Nickel	10.7 J	46.2			18.4	30.2		50.7					0-9.7
Potassium													0-2,531
Silver													0-1.8
Sodium											3920		0-834
Vanadium	25.5		33.5	27.7				27.2					1.7-25.0
Zinc		23.4											0-20.7

TABLE 4-32
METALS CONCENTRATIONS THAT EXCEEDED THE BACKGROUND RANGE IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	113-14		113-15	113-16				113-17			113-19	113-20		Background Range (mg/kg)
CHEMICAL	32 ft.	38 ft.	35 ft.	0 ft.	45 ft.	50 ft.	70 ft.	19 ft.	25 ft.	35 ft.	25 ft.	16 ft.	20 ft.	
Aluminum														593-10,796
Barium								1260 J		736 J				0-548
Beryllium														0-0.6
Calcium								168000					197000	0-166,119
Chromium				19.2										0.8-12.0
Cobalt														0-4.0
Copper					12.6	11.6	27.5					23.5		0-10.1
Iron											8810			0-8,654
Lead				41.1										0-18.4
Magnesium	13200	14500	11100 J											0-9,912
Manganese														0-151.8
Nickel								20.5						0-9.7
Potassium											2550			0-2,531
Silver						4.8								0-1.8
Sodium														0-834
Vanadium											35.6			1.7-25.0
Zinc				25.3					24.3					0-20.7

TABLE 4-32
METALS CONCENTRATIONS THAT EXCEEDED THE BACKGROUND RANGE IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL	113-21		113-22		113-23			113-24		113-25	113-26		Background Range (mg/kg)
	22 ft.	27 ft.	0 ft.	25 ft.	19 ft.	24 ft.	35 ft.	24 ft.	29 ft.	30 ft.	27 ft.	47 ft.	
Aluminum													593-10,796
Barium						608 J							0-548
Beryllium													0-0.6
Calcium	254000 J	173000 J		207000	251000		174000	185000			167000		0-166,119
Chromium										14.1 J		15.6 J	0.8-12.0
Cobalt													0-4.0
Copper									41.9				0-10.1
Iron													0-8,654
Lead			78.2										0-18.4
Magnesium				10200						13000 J		16300 J	0-9,912
Manganese													0-151.8
Nickel										68.6 J			0-9.7
Potassium													0-2,531
Silver													0-1.8
Sodium													0-834
Vanadium													1.7-25.0
Zinc			22.1							59 J			0-20.7

TABLE 4-32
METALS CONCENTRATIONS THAT EXCEEDED THE BACKGROUND RANGE IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	113-27		113-28		113-29		113-30		Background Range (mg/kg)
CHEMICAL	21 ft.	24 ft.	0 ft.	20 ft.	14 ft.	20 ft.	14 ft.	20 ft.	
Aluminum									593-10,796
Barium					1920 J	922 J		3470 J	0-548
Beryllium									0-0.6
Calcium				284000		186000		229000	0-166,119
Chromium									0.8-12.0
Cobalt									0-4.0
Copper									0-10.1
Iron									0-8,654
Lead									0-18.4
Magnesium									0-9,912
Manganese									0-151.8
Nickel							23.9		0-9.7
Potassium									0-2,531
Silver									0-1.8
Sodium									0-834
Vanadium	36.7	31.1							1.7-25.0
Zinc			21.8						0-20.7

Note: (1) Sample Intervals are based on feet below ground surface.
J = Estimated value
* Metals concentrations are in milligrams per kilogram (mg/kg)
Background ranges of metals not detected above the highest background values in soil at Landfill N

Antimony - 0-29.6 mg/kg	Mercury - 0-0.2 mg/kg
Arsenic - 0-10.5 mg/kg	Selenium - 0-36.8 mg/kg
Cadmium - 0-2.1 mg/kg	Thallium - 0-6.2 mg/kg

TABLE 4-33

METAL CONCENTRATIONS ABOVE THE BACKGROUND RANGE IN SUBSURFACE SAMPLES
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Boring No.	Metals above the background range
113-01	Ca, Ba, Cu
113-02	Ca, Al, K
113-03	Ca, Ni
113-04	Ni, Mg
113-05	Ni, Zn, Ca, Cr
113-06	Cu, Ca, Ni, Cr
113-07	Ni, Zn
113-08	V
113-09	--
113-10	Ni, Ba, Cr, Fe
113-11	N, V
113-12	Ca, Ba
113-13	Mg
113-14	Mg
113-15	Mg
113-16	Cu, Ag
113-17	Ba, Ni, Ca, Zn
113-18	--
113-19	Fe, K, V
113-20	Cu, Ca
113-21	Ca
113-22	Ca, Mg
113-23	Ca, Ba
113-24	Cu, Ca
113-25	Ni, Cr, Zn, Mg
113-26	Ca, Mg, Cr
113-27	V
113-28	Ca
113-29	Ba, Ca
113-30	Ni, Ba, Ca

Notes:

The following is a summary of the metals detected above the highest estimated range and the borings where these metals were detected.

(Al) Aluminum	113-02
(Ba) Barium	113-01, 113-10, 113-12, 113-17, 113-23, 113-29 and 113-30
(Ca) Calcium	113-01, 113-02, 113-03, 113-05, 113-06, 113-12, 113-17, 113-20, 113-21, 113-22, 113-23, 113-24, 113-26, 113-28, 113-29, 113-30
(Cr) Chromium	113-05, 113-10, 113-25, 113-26
(Cu) Copper	113-01, 113-06, 113-16, 113-20, 113-24

TABLE 4-33
(Concluded)

(Fe) Iron	113-10, 113-19
(Mg) Magnesium	113-04, 113-13, 113-14, 113-15, 113-22, 113-25, 113-26
(Ni) Nickel	113-03, 113-04, 113-05, 113-06, 113-07, 113-10, 113-11, 113-17, 113-25, 113-30
(K) Potassium	113-02, 113-19
(Ag) Silver	113-16
(V) Vanadium	113-06, 113-08, 113-11, 113-19, 113-27
(Zn) Zinc	113-05, 113-07, 113-17, 113-25

TABLE 4-34

METALS WITH DETECTION LIMITS ABOVE THE BACKGROUND

Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Sample I.D.		Boring 113-03 CAN113-B303-1023	Boring 113-06 CAN113-B306-1020	Boring 113-23 CAN113-B323-1019	Boring 113-28 CAN113-B328-1020	Boring 113-30 CAN113-B330-1020	Background Range[1] (mg/kg)
Antimony	(mg/kg)	(31.5)	(33.9)	(33.5)	(33.3)	--	0-29.6
Beryllium	(mg/kg)	(1)	(1.1)	(1.1)	(1.1)	(1.1)	0-0.6
Cadmium	(mg/kg)	(2.6)	(2.8)	(2.8)	(2.8)	(2.7)	0-2.1
Cobalt	(mg/kg)	(5.2)	(5.7)	(5.6)	(5.6)	(5.5)	0-4.0
Copper	(mg/kg)	--	--	--	--	(10.9)	0-10.1

Notes:

(1) Woodward-Clyde. 1994. Concentrations of Selected Naturally Occurring Chemical Constituents in Soil and Groundwater, Cannon AFB

( ) denotes the Laboratory Detection Limit

-- denotes analyte detected or reporting limit below maximum background concentration

TABLE 4-35

SUMMARY OF SEMIVOLATILE ANALYTES DETECTED IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL		113-01		113-13				113-15		113-16	113-17	113-24
		28 ft.[1]	63 ft.	27 ft.	40 ft.	50 ft.	62 ft.	20 ft.	25 ft.	45 ft.	25 ft.	29 ft.
2-Methylnaphthalene	µg/kg				85 J							
Acenaphthene	µg/kg		39 J	37 J	82 J							
Chrysene	µg/kg				38 J							
Fluoranthene	µg/kg		67 J		93 J							
Fluorene	µg/kg		41 J		69 J							
Phenanthrene	µg/kg		130 J	78 J	220 J	69 J	41 J					
Pyrene	µg/kg		88 J		74 J							
4-Methylphenol	µg/kg									100 J		68 J
4-Nitrophenol	µg/kg							49 J	68 J			
Phenol	µg/kg	360								40 J	47 J	
Dibenzofuran	µg/kg				44 J							

Note: The semivolatile compounds presented in this Table are exclusive of the compounds that are considered to be laboratory contaminants. These are bis(2-ethylhexyl)phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate and diethyl phthalate.

(1) Sample Intervals are based on feet below ground surface.

TABLE 4-36

SUMMARY OF VOLATILE ANALYTES, TRPH, TOTAL SULFIDE AND TOC DETECTED IN SURFACE AND SUBSURFACE SOIL SAMPLES
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL		113-01	113-04	113-05			113-06	113-07		113-08	113-10			113-11	113-12
		0 ft.	0 ft.	24.5 ft.	29.5 ft.	59.5 ft.	25 ft.	0 ft.	59 ft.	55 ft.	0 ft.	34 ft.	54 ft.	35 ft.	65 ft.
1,1,2,2-Tetrachloroethane	µg/kg														
2-Hexanone	µg/kg				1.9 J							1.6 J			
4-Methyl-2-pentanone	µg/kg											6.4 J			
Acetonitrile	µg/kg					16 J			33 J	67 J					24 J
Carbon disulfide	µg/kg						2.9 J								
Ethylbenzene	µg/kg														
Styrene	µg/kg														
Toluene	µg/kg	2.5 J	1.3 J					3.8 J			4.9 J		1 J		
Sulfide, Total	mg/kg								.57						
Total Organic Carbon	(%)														
TRPH	mg/kg			79.1				66.5			49			59.1	

TABLE 4-36

SUMMARY OF VOLATILE ANALYTES, TRPH, TOTAL SULFIDE AND TOC DETECTED IN SURFACE AND SUBSURFACE SOIL SAMPLES
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL		113-13		113-16				113-17		113-18		113-19
		0 ft.	27 ft.	0 ft.	45 ft.	50 ft.	60 ft.	19 ft.	25 ft.	28 ft.	63 ft.	0 ft.
1,1,2,2-Tetrachloroethane	µg/kg											
2-Hexanone	µg/kg				8.3 J	11 J		1.5 J				
4-Methyl-2-pentanone	µg/kg				230	220	2.5 J		10 J			
Acetonitrile	µg/kg											
Carbon disulfide	µg/kg											
Ethylbenzene	µg/kg	1.3 J	300									
Styrene	µg/kg	8.2	1400									
Toluene	µg/kg	1.9 J		1.4 J						1.4 J	1.1 J	4.4 J
Sulfide, Total	mg/kg											
Total Organic Carbon	(%)											
TRPH	mg/kg			72.5					170			43.5

TABLE 4-36

SUMMARY OF VOLATILE ANALYTES, TRPH, TOTAL SULFIDE AND TOC DETECTED IN SURFACE AND SUBSURFACE SOIL SAMPLES
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		113-21				113-22		113-24		113-25	113-28
CHEMICAL		22 ft.[1]	27 ft.	45 ft.	57 ft.	0 ft.	45 ft.	29 ft.	40 ft.	60 ft.	0 ft.
1,1,2,2-Tetrachloroethane	µg/kg	2.3 J	8.2	3.5 J	3.1 J						
2-Hexanone	µg/kg							3.4 J			
4-Methyl-2-pentanone	µg/kg										
Acetonitrile	µg/kg										
Carbon disulfide	µg/kg										
Ethylbenzene	µg/kg										
Styrene	µg/kg										
Toluene	µg/kg						4.8 J		1.8 J	1.7 J	
Sulfide, Total	mg/kg										
Total Organic Carbon	(%)										.57
TRPH	mg/kg					51		164			85.6

Note: The volatile compounds presented in this Table are exclusive of the compounds that are considered to be laboratory contaminants. These are 2-butanone (MEK), acetone, and methylene chloride.

(1) Sample Intervals are based on feet below ground surface.

TABLE 4-37
SUMMARY OF SEMIVOLATILE ORGANIC TENTATIVELY IDENTIFIED COMPOUNDS DETECTED IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL	113-01	113-03	113-04			113-05		113-07		113-08		
	0 ft.	28 ft.	0 ft.	20 ft.	45 ft.	24.5 ft	59.5 ft.	0 ft.	24 ft.	25 ft.	45 ft.	55 ft.
.alpha.-Amyrin	140 NJ											
.alpha.-Pinene												
1,1'-Biphenyl, 4,4'-difluoro-												
1-Hexanol, 2-ethyl-												
1-Methylnaphthalene												
1-Nonadecanol												
1-Octadecanol												
14-Pentadecenoic acid												
2-Methylheptanoic acid												
3-Cyclohexene-1-methanol, .alpha.,.alpha.4-trim!	190 NJ											
3-Penten-2-one, 4-methyl-												
a'-Neogammacer-22(29)-en-3-ol,(3.beta.,21.beta.)-									180 NJ			
Butanoic acid												
Butanoic acid, 2-methyl-												
Cyclohexane, methyl-												
Cyclopentanecarboxylic acid, 2-amino-, trans-												
Eicosanoic acid, 2,3-bis (acetyloxy)propyl ester												
Hexadecanoic acid												
Hexanedioic acid, bis(2-ethylhexyl)ester				160 NJ			830 NJ					510 NJ
Hexanedioic acid, dioctyl ester												
Hexanoic acid												
Hexanoic acid, 2-ethyl-												
Hexanoic acid, 2-methyl-												
Isomer of Neogammacer-en-ol									1000 NJ			
Nitrogen compound												
Nonanedioic acid, bis(2-ethylhexyl) ester												
Octadecanoic acid, 2-methylpropyl ester									430 NJ			
Octadecanoic acid, butyl ester												
Octanoic acid												
Oleic Acid												
Oxygenated Hydrocarbon										440 NJ		
Pentanoic acid												
Pentanoic acid, 2-methyl-												
Phenol, 4,4'-butylidenebis[2-(1,1-dimethylethyl)!												
Polynuclear Aromatic Hydrocarbon												
Primary amide												
Propanoic acid												
Propanoic acid, 2-methyl-												
Saturated Hydrocarbon: >C20	290 NJ		150 NJ		160 NJ	310 NJ		290 NJ				
Saturated Hydrocarbon: C10-C20											910 NJ	
Stigmast-5-en-3-ol-, (3.beta.,24S)-	280 NJ		350 NJ		260 NJ			340 NJ				
Sulfur, mol. (S8)												
Unknown			360 NJ		150 NJ	850 NJ		520 NJ				
Unsaturated Hydrocarbon		170 NJ										

TABLE 4-37
SUMMARY OF SEMIVOLATILE ORGANIC TENTATIVELY IDENTIFIED COMPOUNDS DETECTED IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL	113-09	113-10		113-11		113-13				113-14	
	35 ft.	0 ft.	54 ft.	35 ft.	55 ft.	0 ft.	32 ft.	40 ft.	50 ft.	38 ft.	57 ft.
.alpha.-Amyrin											
.alpha.-Pinene		140 NJ									
1,1'-Biphenyl, 4,4'-difluoro-											
1-Hexanol, 2-ethyl-											
1-Methylnaphthalene								76 NJ			
1-Nonadecanol		200 NJ									
1-Octadecanol		240 NJ									
14-Pentadecenoic acid											
2-Methylheptanoic acid											
3-Cyclohexene-1-methanol, .alpha.,.alpha.4-trim!											
3-Penten-2-one, 4-methyl-				180 NJ							
a'-Neogammacer-22(29)-en-3-ol,(3.beta.,21.beta.)-											
Butanoic acid				1200 NJ						530 NJ	
Butanoic acid, 2-methyl-											
Cyclohexane, methyl-											
Cyclopentanecarboxylic acid, 2-amino-, trans-					200 NJ						
Eicosanoic acid, 2,3-bis (acetyloxy)propyl ester	340 NJ										
Hexadecanoic acid											
Hexanedioic acid, bis(2-ethylhexyl)ester							980 NJ				
Hexanedioic acid, dioctyl ester									1000 NJ		
Hexanoic acid										210 NJ	
Hexanoic acid, 2-ethyl-											
Hexanoic acid, 2-methyl-											
Isomer of Neogammacer-en-ol											
Nitrogen compound											
Nonanedioic acid, bis(2-ethylhexyl) ester											
Octadecanoic acid, 2-methylpropyl ester											
Octadecanoic acid, butyl ester					200 NJ						
Octanoic acid											
Oleic Acid											
Oxygenated Hydrocarbon			190 NJ	260 NJ							
Pentanoic acid											
Pentanoic acid, 2-methyl-											
Phenol, 4,4'-butylidenebis[2-(1,1-dimethylethyl)!											
Polynuclear Aromatic Hydrocarbon											
Primary amide											190 NJ
Propanoic acid											
Propanoic acid, 2-methyl-											
Saturated Hydrocarbon: >C20		410 NJ		640 NJ							
Saturated Hydrocarbon: C10-C20				160 NJ							
Stigmast-5-en-3-ol-, (3.beta.,24S)-		350 NJ									
Sulfur, mol. (S8)											
Unknown		460 NJ				270 NJ					
Unsaturated Hydrocarbon											

TABLE 4-37
SUMMARY OF SEMIVOLATILE ORGANIC TENTATIVELY IDENTIFIED COMPOUNDS DETECTED IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL	113-16			113-17	113-19	113-22			113-23			113-24
	0 ft.	45 ft.	50 ft.	25 ft.	0 ft.	0 ft.	18 ft.	45 ft.	19 ft.	24 ft.	35 ft.	29 ft.
.alpha.-Amyrin												
.alpha.-Pinene												
1,1'-Biphenyl, 4,4'-difluoro-												
1-Hexanol, 2-ethyl-				340 NJ								
1-Methylnaphthalene												
1-Nonadecanol												
1-Octadecanol												
14-Pentadecenoic acid				910 NJ								
2-Methylheptanoic acid												360 NJ
3-Cyclohexene-1-methanol, .alpha.,.alpha.4-trim!												
3-Penten-2-one, 4-methyl-												
a'-Neogammacer-22(29)-en-3-ol,(3.beta.,21.beta.)-												
Butanoic acid				3700 NJ								3400 NJ
Butanoic acid, 2-methyl-		490 NJ										700 NJ
Cyclohexane, methyl-							140 NJ	140 NJ	170 NJ	170 NJ	180 NJ	
Cyclopentanecarboxylic acid, 2-amino-, trans-												
Eicosanoic acid, 2,3-bis (acetyloxy)propyl ester												
Hexadecanoic acid				480 NJ								1000 NJ
Hexanedioic acid, bis(2-ethylhexyl)ester												
Hexanedioic acid, dioctyl ester												
Hexanoic acid		650 NJ		400 NJ								4900 NJ
Hexanoic acid, 2-ethyl-		400 NJ	150 NJ									
Hexanoic acid, 2-methyl-		320 NJ										2600 NJ
Isomer of Neogammacer-en-ol												
Nitrogen compound		140 NJ										
Nonanedioic acid, bis(2-ethylhexyl) ester		210 NJ										
Octadecanoic acid, 2-methylpropyl ester												
Octadecanoic acid, butyl ester												
Octanoic acid		270 NJ										1100 NJ
Oleic Acid												1700 NJ
Oxygenated Hydrocarbon		180 NJ		570 NJ								
Pentanoic acid		500 NJ		330 NJ								4200 NJ
Pentanoic acid, 2-methyl-		180 NJ										2200 NJ
Phenol, 4,4'-butylidenebis[2-(1,1-dimethylethyl)!												
Polynuclear Aromatic Hydrocarbon												
Primary amide												
Propanoic acid		3000 NJ	780 NJ	370 NJ								
Propanoic acid, 2-methyl-		1300 NJ	440 NJ									340 NJ
Saturated Hydrocarbon: >C20	380 NJ			830 NJ	240 NJ							570 NJ
Saturated Hydrocarbon: C10-C20						260 NJ						
Stigmast-5-en-3-ol-, (3.beta.,24S)-												
Sulfur, mol. (S8)		750 NJ	190 NJ									
Unknown												1200 NJ
Unsaturated Hydrocarbon												

TABLE 4-37
SUMMARY OF SEMIVOLATILE ORGANIC TENTATIVELY IDENTIFIED COMPOUNDS DETECTED IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL	113-25					113-26	113-27	113-28
	0 ft.	24 ft.	30 ft.	40 ft.	50 ft.	27 ft.	21 ft.	0 ft.
.alpha.-Amyrin								
.alpha.-Pinene								
1,1'-Biphenyl, 4,4'-difluoro-			280 NJ					
1-Hexanol, 2-ethyl-								
1-Methylnaphthalene								
1-Nonadecanol								
1-Octadecanol								
14-Pentadecenoic acid								
2-Methylheptanoic acid								
3-Cyclohexene-1-methanol, .alpha.,.alpha.4-trim!								
3-Penten-2-one, 4-methyl-								
a'-Neogammacer-22(29)-en-3-ol,(3.beta.,21.beta.)-								
Butanoic acid								
Butanoic acid, 2-methyl-								
Cyclohexane, methyl-							150 NJ	
Cyclopentanecarboxylic acid, 2-amino-, trans-								
Eicosanoic acid, 2,3-bis (acetyloxy)propyl ester								
Hexadecanoic acid								
Hexanedioic acid, bis(2-ethylhexyl)ester								
Hexanedioic acid, dioctyl ester								
Hexanoic acid								
Hexanoic acid, 2-ethyl-								
Hexanoic acid, 2-methyl-								
Isomer of Neogammacer-en-ol								
Nitrogen compound								
Nonanedioic acid, bis(2-ethylhexyl) ester								
Octadecanoic acid, 2-methylpropyl ester								
Octadecanoic acid, butyl ester								
Octanoic acid								
Oleic Acid								
Oxygenated Hydrocarbon							230 NJ	
Pentanoic acid								
Pentanoic acid, 2-methyl-								
Phenol, 4,4'-butylidenebis[2-(1,1-dimethylethyl)!						240 NJ		
Polynuclear Aromatic Hydrocarbon								190 NJ
Primary amide								
Propanoic acid								
Propanoic acid, 2-methyl-								
Saturated Hydrocarbon: >C20							170 NJ	330 NJ
Saturated Hydrocarbon: C10-C20	870 NJ	930 NJ	440 NJ	640 NJ	380 NJ			
Stigmast-5-en-3-ol-, (3.beta.,24S)-								
Sulfur, mol. (S8)								
Unknown								
Unsaturated Hydrocarbon								

Note: All semivolatile organic concentrations in micrograms per kilogram
NJ = Tentatively identified compound with an estimated concentration.

TABLE 4-38
SUMMARY OF VOLATILE ORGANIC TENTATIVELY IDENTIFIED COMPOUNDS DETECTED IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	113-01	113-04			113-05					113-07		113-09
CHEMICAL	0 ft.	25 ft.	35 ft.	45 ft.	24.5 ft.	29.5 ft.	39.5 ft.	49.5 ft.	59.5 ft.	39 ft.	59 ft.	53 ft.
1-Pentene, 4,4-dimethyl-												
2-Butene												
2-Hepten-1-ol												
Acetic acid, ethyl ester						13 NJ	21 NJ	27 NJ		110 NJ	6.5 NJ	
Acetic acid, methyl ester												
Benzene, 2-butenyl-												
Bicyclo[2.2.1]heptan-2-one,1,3,3-trimethyl-	11 NJ											
Camphor	5.3 NJ											
Nonanal			8.2 NJ						10 NJ			
None Detected												0 NJ
Oxygenated Hydrocarbon				6.9 NJ		5.9 NJ						
Saturated Hydrocarbon: <C10												
Unknown					5.5 NJ	9.4 NJ		15 NJ				
Unsaturated Hydrocarbon		7.8 NJ										

TABLE 4-38
SUMMARY OF VOLATILE ORGANIC TENTATIVELY IDENTIFIED COMPOUNDS DETECTED IN SURFACE AND SUBSURFACE SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

CHEMICAL	113-10				113-13	113-14	113-19	113-23			113-24	113-26		113-27	113-30
	34 ft.	44 ft.	54 ft.	64 ft.	27 ft.	57 ft.	0 ft.	24 ft.	45 ft.	54 ft.	29 ft.	37 ft.	55 ft.	34.5 ft.	20 ft.
1-Pentene, 4,4-dimethyl-	6.7 NJ														
2-Butene	8.6 NJ														
2-Hepten-1-ol								7 NJ	12 NJ	5.6 NJ					
Acetic acid, ethyl ester	29 NJ	44 NJ	90 NJ											33 NJ	12 NJ
Acetic acid, methyl ester							7.4 NJ							6.4 NJ	
Benzene, 2-butenyl-					570 NJ										
Bicyclo[2.2.1]heptan-2-one,1,3,3-trimethyl-															
Camphor															
Nonanal															
None Detected															
Oxygenated Hydrocarbon											9.5 NJ				
Saturated Hydrocarbon: <C10											9.4 NJ				
Unknown						5.6 NJ						7.3 NJ	6.7 NJ		11 NJ
Unsaturated Hydrocarbon				11 NJ											

Note: All volatile organic concentrations in micrograms per kilograms (ug/kg)
NJ = Tentatively identified compound with an estimated concentration.

TABLE 4-39
SUMMARY OF VOLATILE AND SEMI-VOLATILE TICs AND THEIR OCCURRENCE IN SURFACE AND SUBSURFACE SOIL AT LANDFILL NO. 5
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

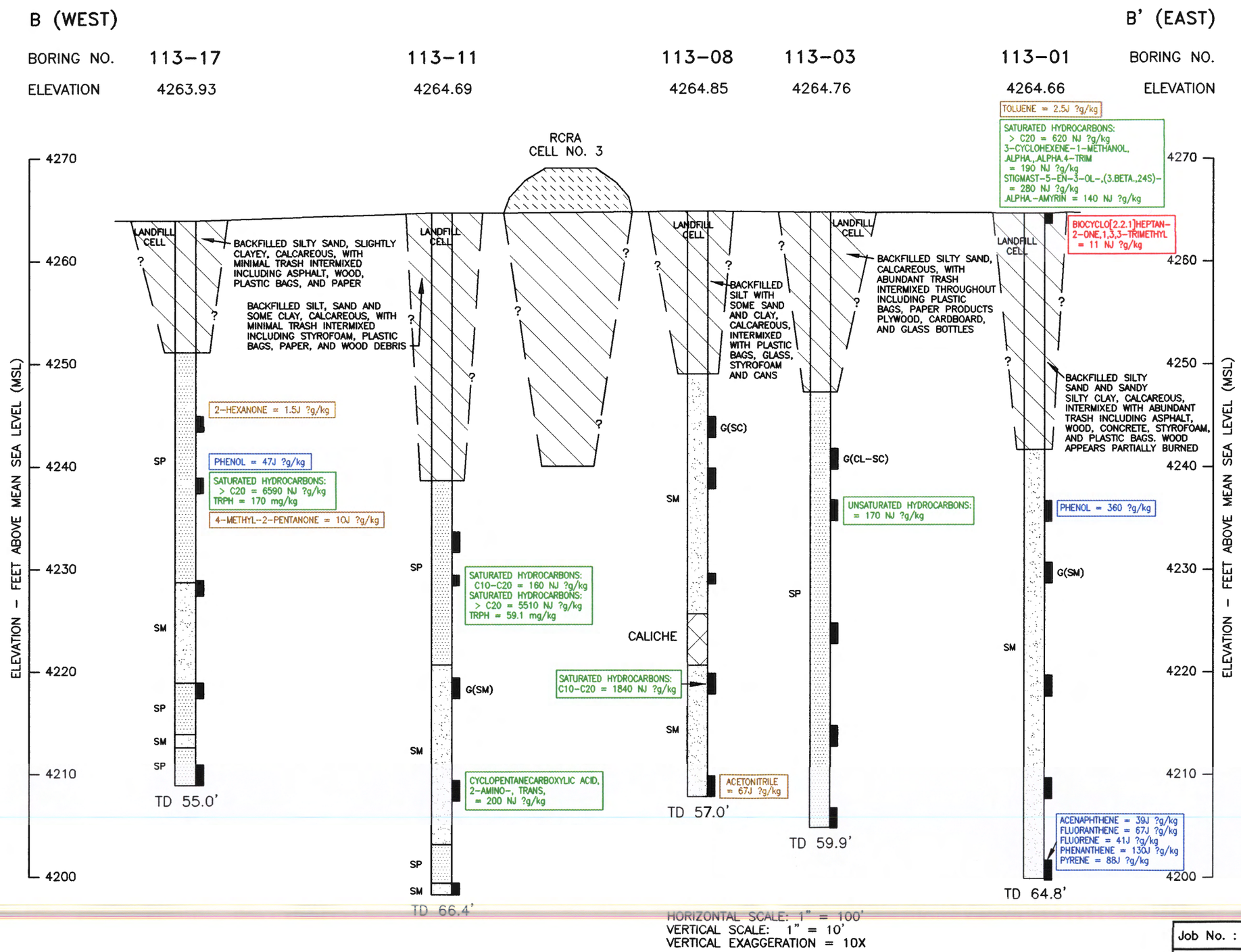
Category	Chemical Group	Occurrence	Boring Locations	Range of Concentrations (NJ) (ug/kg)
POTENTIALLY NON-TOXIC CHEMICALS				
Alcohol				
2-Hepten-1-ol	VOC	3 samples in 1 boring	113-23	5.6 - 12
1-Nonadecanol	SVOC	1 sample in 1 boring (surface sample)	113-10	200
1-Octadecanol	SVOC	1 sample in 1 boring (surface sample)	113-10	240
1-Hexanol, 2-ethyl-	SVOC	1 sample in 1 boring	113-17	340
Isomer of Neogammacer-en-ol	SVOC	1 sample in 1 boring	113-07	340 - 1000
Ketone				
3-Penten-2-one, 4-methyl-	SVOC	1 sample in 1 boring	113-11	180
Camphor	VOC	1 sample in 1 boring (surface sample)	113-01	5.3
Fatty Acids & Esters				
Octadecanoic acid, 2-methylpropyl ester	SVOC	1 sample in 1 boring	113-07	430
Hexanedioic acid, bis(2-ethylhexyl)ester	SVOC	4 samples in 4 borings	113-04, 113-05, 113-08, 113-13	160 - 980
14-Pentadecenoic acid	SVOC	1 sample in 1 boring	113-17	910
2-Methylheptanoic acid	SVOC	1 sample in 1 boring	113-24	360
Butanoic acid	SVOC	4 samples in 4 borings	113-11, 113-14, 113-17, 113-24	530 - 3700
Butanoic acid, 2-methyl-	SVOC	2 samples in 2 borings	113-16, 113-24	490 - 700
Hexadecanoic acid	SVOC	2 samples in 2 borings	113-17, 113-24	480 - 1000
Hexadecanoic acid, dioctyl ester	SVOC	1 sample in 1 boring	113-13	1000
Hexanoic acid	SVOC	4 samples in 4 borings	113-14, 113-16, 113-17, 113-24	210 - 4900
Hexanoic acid, 2-ethyl-	SVOC	2 samples in 1 boring	113-16	150 - 400
Hexanoic acid, 2-methyl-	SVOC	2 samples in 2 borings	113-16, 113-24	320 - 2600
Nonanedioic acid, bis(2-ethylhexyl)ester	SVOC	1 sample in 1 boring	113-16	210
Octadecanoic acid, butyl ester	SVOC	1 sample in 1 boring	113-11	200
Octanoic acid	SVOC	2 samples in 2 borings	113-16, 113-24	270 - 1100
Oleic Acid	SVOC	1 sample in 1 boring	113-24	1700

TABLE 4-39
SUMMARY OF VOLATILE AND SEMI-VOLATILE TICs AND THEIR OCCURRENCE IN SURFACE AND SUBSURFACE SOIL AT LANDFILL NO. 5
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Category	Chemical Group	Occurrence	Boring Locations	Range of Concentrations (NJ) (ug/kg)
Pentanoic acid	SVOC	3 samples in 3 borings	113-16, 113-17, 113-24	330 - 4200
Pentanoic acid, 2-methyl-	SVOC	2 samples in 2 borings	113-16, 113-24	180 - 2200
Propanoic acid	SVOC	3 samples in 2 borings	113-16, 113-17	370 - 3000
Propanoic acid, 2-methyl-	SVOC	3 samples in 2 borings	113-16, 113-24	340 - 1300
Other				
Nitrogen Compound	SVOC	1 sample in 1 boring	113-16	140
Oxygenated Hydrocarbon	SVOC	9 samples in 9 borings	113-04, 113-05, 113-08, 113-10, 113-11, 113-16, 113-17, 113-24, 113-27	5.9 to 570
Polynuclear Aromatic Hydrocarbon	SVOC	1 sample in 1 boring	113-28	190
Primary amide	SVOC	1 sample in 1 boring	113-14	190
Unknown	SVOC & VOC	13 samples in 9 borings	113-04, 113-05, 113-07, 113-10, 113-13, 113-14, 113-24, 113-26, 113-30	5.5 to 1200
PETROLEUM RELATED				
Saturated Hydrocarbon:<C10	VOC	1 sample in 1 boring	113-24	9.4
Saturated Hydrocarbon:>C20	SVOC	13 samples in 12 borings (6 surface samples)	113-01, 113-04, 113-05, 113-07, 113-10, 113-11, 113-16, 113-17, 113-19, 113-24, 113-27, 113-28	140 - 830
Saturated:C10-C20	SVOC	8 samples in 4 borings (2 surface samples)	113-08, 113-11, 113-22, 113-25	140 - 3200
Unsaturated Hydrocarbon	VOC & SVOC	3 samples in 3 borings	113-03, 113-04, 113-10	6 - 170

TABLE 4-39
SUMMARY OF VOLATILE AND SEMI-VOLATILE TICs AND THEIR OCCURRENCE IN SURFACE AND SUBSURFACE SOIL AT LANDFILL NO. 5
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Category	Chemical Group	Occurrence	Boring Locations	Range of Concentrations (NJ) (ug/kg)
CHEMICALS OF POTENTIAL OR UNKNOWN TOXICITY				
Bicyclo[2.2.1]heptan-2-one,1,3,3-trimethyl-	VOC	1 sample in 1 boring (surface sample)	113-01	11
Benzene, 2-butenyl-	VOC	1 sample in 1 boring	113-13	570
Acetic acid, ethyl ester	VOC	10 samples in 5 borings	113-05, 113-07, 113-10, 113-27, 113-30	6.5 to 110
Acetic acid, methyl ester	VOC	2 samples in 2 borings	113-19, 113-27	6.4-7.4
2-butene	VOC	1 sample in 1 boring	113-10	8.6
1-pentene, 4,4-dimethyl-	VOC	1 sample in 1 boring	113-10	6.7
Nonanal	VOC	2 samples in 2 borings	113-04, 113-05	8.2-10
Phenol, 4,4'-butylidenebis[2-(1,1-dimethylethyl)	SVOC	1 sample in 1 boring	113-26	240
Cyclohexane, methyl-	SVOC	6 samples in 3 borings	113-22, 113-23, 113-27	140 - 180
3-Cyclohexene-1-methanol, .alpha.,.alpha.4-trim	SVOC	1 sample in 1 boring (surface sample)	113-01	190
1,1'-Biphenyl, 4,4'-difluoro-	SVOC	1 sample in 1 boring	113-25	280
Sulfur, mol. (S8)	SVOC	2 samples in 1 boring	113-16	190 - 750
1-Methylnaphthalene	SVOC	1 sample in 1 boring	113-13	76
.alpha.-Amyrin	SVOC	1 sample in 1 boring (surface sample)	113-01	140
.alpha-Pinene	SVOC	1 sample in 1 boring	113-10	140
Cyclopentanecarboxylic acid, 2-amino-, trans-	SVOC	1 sample in 1 boring	113-11	200
Eicosanoic acid, 2,3-bis(acetyloxy)propyl ester	SVOC	1 sample in 1 boring	113-09	340
Stigmast-5-en-3-ol-,(3.beta.,24S)-	SVOC	5 samples in 4 borings (4 surface samples)	113-01, 113-04, 113-07, 113-10	260 - 350
a'-Neogammacer-22(29)-en-3-ol,(3.beta.,21.beta.)-	SVOC	1 sample in 1 boring	113-07	180



HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 10'
VERTICAL EXAGGERATION = 10X

LEGEND

(SM) SILTY FINE-GRAINED SAND, TRACE OF
TO PINK ORANGE, LOOSE TO VERY D
HIGHLY CALCAREOUS, CALICHE NODUL

(SP) POORLY GRADED, FINE-GRAINED SAND
CALCAREOUS

(CL) CLAY, WITH SOME SILT AND SAND, CA

CALICHE, DENSE TO VERY DENSE, FINE TO
COARSE GRAINED QUARTZ GRAINS, PINK TO
WHITE TO TAN

LANDFILL WASTE

CLAY CAP OVER RCRA CELL NO. 3

CHEMICAL ANALYTICAL SAMPLE COLLECTED

G(SM) CHEMICAL AND GEOTECHNICAL SAMPLE COL
(SM) – USCS CLASSIFICATION SYMBOL A
LABORATORY GRAIN SIZE ANALYS

TD TOTAL DEPTH OF SOIL BORING IN FEET BEL
SURFACE

SC CLAYEY SANDS

J ESTIMATED VALUE

NJ TENTATIVELY IDENTIFIED COMPOUNDS WITH A
CONCENTRATION

SATURATED HYDROCARBON: > C20 = 940 NJ ?g/kg — TENTATIVELY IDENTIFIED SEMI-VOLATILE AND TRPH

BENZENE,2-BUTENYL = 570 NJ ?g/kg — TENTATIVELY IDENTIFIED VOLATILE ORGA

PHENOL = 360 ?g/kg — SEMI-VOLATILE ORGANIC COMPOUNDS

TOLUENE = 2.5J ?g/kg — VOLATILE ORGANIC COMPOUNDS

TRPH – TOTAL RECOVERABLE PETROLEUM HYD

NOTES

1. THE LOCATION OF THESE BORINGS ARE SHOWN IN
2. THE LATERAL EXTENT OF THE LANDFILL CELLS ARE BASED ON THE TOTAL FIELD MAGNETICS GEOPHYSIC
3. BORINGS WERE DRILLED IN JULY AND AUGUST 199 PHASE I RFI DRILLING PROGRAM.

Job No. : C3M11M	SEMI-VOLATILE, VOLATILE AND P TENTATIVELY IDENTIFIED COMPOUND GEOLOGIC PROFILE B-B' LA
Prepared by : K.A.P.	
Date : 9/28/95	CANNON AFB, NEW M

M11CHEMG

5.0
CONTAMINANT FATE AND TRANSPORT

Potential contaminant migration pathways and the fate and transport of the chemicals of interest (COI) initially identified for the human health risk screen (Section 6.0) at Landfill No. 5 are discussed in this section. The importance of physical and chemical properties of the COIs in relation to transport mechanisms is presented. This generalized discussion provides useful insights on possible transport behavior and likely chemical persistence for Landfill No. 5. Given the limited nature and similarity of the COIs, they are discussed as classes of contaminants (i.e., organics and inorganics) for the entire Landfill No. 5 Site. The COIs for Landfill No. 5 include metals and organic compounds, principally VOCs, SVOCs, (i.e., polynuclear aromatic hydrocarbons - PAHs) and PCBs (Table 5-1).

Potentially important exposure pathways and transport mechanisms are discussed for Landfill No. 5 followed by an assessment of the physical and chemical properties which control fate and transport in soil. The mobility and/or persistence of the COIs in specific media are addressed next, followed by a discussion of exposure assessment for potential receptors.

5.1 EXPOSURE PATHWAYS AND POTENTIAL CONTAMINANT TRANSPORT MECHANISMS

As presented in Section 3.4 of the Work Plan for the Phase I RFI at Landfill No. 5, the initial evaluation of potential risks to human and the environment led to the development of an Exposure Pathways Flow Chart (EPFC) for Landfill No. 5 which is shown in Figure 5-1. The EPFC was initially used to assist in development of the sampling strategy for the Phase I RFI and is used in this report to evaluate the need for future work at Landfill No. 5.

Figure 5-1 shows chemical sources and potential human exposure pathways for Landfill No. 5. The EPFC presents chemical release sources and transport media, potential human receptors, and intake mechanisms for each potential exposure pathway. An exposure pathway describes the means by which release, transport, and intake by receptor populations of chemicals of concern occurs. An exposure pathway consists of five 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 the transported chemicals (e.g., a domestic drinking water well)
- Human receptors located at these points of exposure
- A human intake mechanism (e.g., inhalation or ingestion) at the point of exposure

All five elements must be present for an exposure pathway to be complete and for chemical exposure to occur. In the EPFC, potentially significant pathways are denoted with solid lines, and pathways that are considered to be insignificant relative to other pathways are denoted with dashed lines (Figure 5-1).

The potential sources of chemical emissions from Landfill No. 5 are presented in Figure 5-1. The primary potential source is generally waste (e.g., fuels, oils, and solvents) that have possibly leached into subsurface soils; the secondary potential sources are other media, such as subsurface soil or water, impacted by the primary source.

Chemicals in these media or sources may be transported away from Landfill No. 5, thereby affecting other media that may act as tertiary sources. Percolation and leaching of the wastes to the subsurface soil is shown as a primary chemical release mechanism. Subsurface soils are an important secondary source of potential chemical release. Chemicals released from Landfill No. 5 may infiltrate/percolate through the soil and be released to groundwater.

Exposure pathway 1 shown on Figure 5-1 involves the release of chemicals from the landfill cells to subsurface soil then further percolation to groundwater. Exposure pathway 2 involves release of chemicals from Landfill No. 5 and potential transport to receptors by way of ingestion, inhalation, or dermal contact from air and dust. Exposure pathway 3 consists of a release of chemicals from the landfill cells to the vadose zone (i.e., subsurface soil) leading to potential exposure through direct contact.

COIs at Landfill No. 5 could potentially move into the adjacent environment by several transport mechanisms. These mechanisms include (1) air - volatilization of organics and movement within soil gas or the atmosphere, and wind transport of metals and/or organics on- or off-site; (2) leaching - through the vadose zone; and (3) groundwater - subsequent movement via groundwater flow. These potential transport mechanisms are discussed below.

5.1.1 Air

The air mechanism includes volatilization from water or soil, and wind transport. Volatilization is a process by which an organic compound is transferred from soil or water into soil gas and/or the atmosphere. Volatilization will influence the migration of VOCs; however, it will have much less, or no, impact on most SVOCs detected and will not influence the metals detected. The focus of this transport mechanism is on the upward migration and dispersion of soil gasses into the atmosphere. The wind component will affect metals adsorbed to dust particles, as well as organics which may also be absorbed to dust particles or dispersed in the atmosphere. Air transport could potentially modify organic concentrations associated with surface soils. The degree to which metal or organic concentrations could be modified during transport will depend on the physio-chemical properties of the specific chemicals of interest.

5.1.2 Leaching (Vadose Zone)

Chemicals potentially released to the subsurface at Landfill No. 5 could migrate, in the dissolved phase or as non-aqueous phase liquids (NAPLs), downward within the vadose zone. This migration could result in residual contamination in the vadose zone. Contamination in the vadose zone may result from adsorption of dissolved-phase contaminants onto subsurface soils as the contaminants migrate downward with infiltrating meteoric water. Contaminants may be left behind in dead end pore spaces of the geological materials as contaminants move downward. Dissolved-phase contaminants not held in the vadose zone could ultimately reach the saturated zone where mixing with groundwater may occur. NAPLs not held as residual contamination in the vadose zone may move downward under the force of gravity until encountering a hydraulic (i.e., capillary fringe) or lithologic (fine-grained geologic layer) barrier.

If present, NAPLs can penetrate the capillary fringe and the water table only if the liquid has sufficient pressure head to overcome the capillary pressure (Anderson et al. 1992). Likewise, NAPLs can penetrate fine-grained geologic materials only if the liquid has sufficient pressure head to overcome the increased capillary pressure in the fine-grained materials. When capillary pressure cannot be overcome, lateral spreading or pooling of the liquid on top of the water table or fine-grained barrier may occur. In the case of a lens of fine-grained material surrounded by coarse-grained material, spreading may occur on top of the lens until the liquid spills over the edge of the lens, at which point the liquid may continue downward until reaching the water table or another lithologic barrier. It should be noted that NAPLs were not observed during the Phase I RFI.

For extended periods following the initial release of contaminants, infiltrating precipitation moving downward through the vadose zone can leach contaminants from the zone of residual contamination and transport them to the saturated zone. This is an important transport mechanism for contaminants with high aqueous solubility. Contaminants with lower solubilities (e.g., metals) are less likely to be leached from the vadose zone and typically exhibit lower mobility.

5.1.3 Groundwater

As previously discussed, the Ogallala, or Great Plains, aquifer underlies Cannon AFB. It consists of gravels, sands, silts and clays which vary from 360 to 415 feet in thickness at Cannon AFB. Caliche is a major feature of the Ogallala Aquifer in the area and may vary from 5 to 25 feet in thickness. The predominant clays within the Ogallala are smectites and attapulgite. The Ogallala Aquifer has a saturated thickness of about 95 to 145 feet which is strongly influenced by the configuration of the erosional unconformity underlying the Ogallala Aquifer. Based on information collected during the 1991 W-C investigation of 18 SWMUs, the unsaturated thickness ranges from 264 to about 355 feet bgs. The recharge rate for the Ogallala Aquifer has been estimated at 1 inch/year (Kearney 1987) and is attributable to the low annual rainfall coupled with the high annual evapotranspiration rate. The hydraulic gradient is toward the southeast at 7 to 15 feet/mile.

Groundwater from the Ogallala Aquifer is the base's sole source of water which is supplied by nine wells. These wells have capacities of 200 to 765 gpm (gallons per minute) and were installed to total depths ranging from 357 to 415 feet bgs (USAF 1991). In 1984 these wells were producing at an average daily rate of 1.3 million gallons (William Matotan and Associates 1985). During the peak summer demand, about 25 percent of this water was used for irrigation.

Dissolution of metals and organics through the leaching of contaminated surface, or near surface, soils by infiltrating meteoric water is considered the principal means by which contaminants could enter the site groundwater beneath Landfill No. 5. This infiltrating water will originate from precipitation, probably during storm events. In the near surface, adsorption of chemicals of interest may play a role in retarding downward mobilization. However, facilitated transport of contaminants through dissolution may not be a significant means for contaminants to reach groundwater given the unconsolidated nature and thickness of the vadose zone as well as the potential for adsorption and low annual precipitation at the site. For organics which enter the unsaturated zone via infiltration, volatilization within the thick unsaturated zone may limit the concentrations of any dissolved volatile organics before they reach the water table.

5.2 PHYSICAL AND CHEMICAL PROPERTIES

This section provides a discussion of the physical and chemical properties of the COIs which directly affect their fate and transport. These properties are summarized in Table 5-2.

5.2.1 Volatilization

Volatilization will affect the volatile organic concentrations in the soil. Organics influenced by this process will be transferred into a gaseous phase, soil gas and/or the atmosphere. Assuming that a free non-aqueous phase does not exist, volatilization will principally be controlled by a chemical's solubility, vapor pressure, Henry's Law constant, and adsorption. Water content of a soil, temperature, and atmospheric conditions (i.e., wind and sunlight) may also influence volatilization from a soil (Lyman et al. 1990).

Volatilization is a complex process that is dependent on very site-specific conditions. Nevertheless, some appreciation of an organic chemical's volatility can be made by considering the Henry's Law constant and vapor pressure values. Henry's Law constant is directly proportional to a chemical's vapor pressure and molecular weight and inversely proportional to its water solubility and temperature. Henry's Law constant values > 10^{-3} atm-m^3/mole (cubic meters of atmosphere per mole) are considered to have a high volatility while those with values < 10^{-7} atm-m^3/mole are less volatile than water and will tend to concentrate in water as it evaporates (Lyman et al. 1990). Dragun (1988) and Olsen and Davis (1990) suggest comparable though slightly different values for high and low volatility. According to Ney (1990), organic vapor pressures of > 10^{-2} mm Hg (millimeters of mercury) are indicative of high volatility while values of < 10^{-6} mm Hg suggests low volatility.

5.2.2 Aqueous Solubility

Solubility is one of the most important factors influencing the fate and transport of metals and organic chemicals. For metals in solution, their solubility will be controlled by the solution Eh-pH relationships; number, concentrations, solubility product, etc. of ion complexes in solution; aqueous major ion chemistry; etc. Dissolved metal fate and transport will depend upon a number of very site-specific factors whose collection and/or calculation were beyond the scope of this investigation. Water solubility of organics is typically considered with respect to the K_{OW} (octanol/water partition coefficient). The K_{OW} value is defined as "... the ratio of a chemical's concentration in the octanol phase to its concentration in the aqueous phase of a two-phase system." (Lyman et al. 1990) Other factors which can affect an organic's solubility include adsorption, volatilization, and presence of organic carbon. According to Lyman et al. (1990), values of log K_{OW} > 4 indicate the organic is very hydrophobic and would have a low water solubility, high soil/sediment adsorption coefficients, lower mobility, and higher potential to bioaccumulate. Conversely, values of log K_{OW} < 1 suggest high solubilities and greater mobility, but small soil/sediment adsorption coefficients and decreased potential for bioaccumulation.

5.2.3 Adsorption

Adsorption is also an important factor which influences the fate and transport of both metals and organics. Typically, adsorption is expressed in terms of an adsorption coefficient, and it can be defined as the ratio to which a metal or organic chemical partitions itself between the solid and solution phases. This can apply to water-saturated or unsaturated soils, storm water, sediment, or aquifer materials. Adsorption is often referred to in terms of the soil-water distribution coefficient - K_d, or distribution coefficient. K_d is defined as the ratio of concentration adsorbed on soil surfaces to the concentration in water. For organics, K_d has been strongly correlated with the fraction of total organic carbon in the solid matrix (f_{OC}) and which has been used to define the organic carbon partition coefficient - K_{OC} (Olsen and Davis 1990). It is defined as the ratio of K_d to f_{OC} (i.e., chemical adsorbed per unit weight of total organic carbon (TOC) in the soil/sediment/aquifer to the concentration of the chemical in solution at equilibrium). This correlation appears to hold over a wide range of TOC content values (i.e., 0.1 to 2 percent TOC) as reported by Lyman et al. (1990). For organics, a critical fraction of organic carbon can be defined (i.e., < 0.1 percent TOC), below which inorganic clay surface reactions dominate the adsorption process (Olsen and Davis 1990). A qualitative assessment of chemical mobility based on K_d values has been made by Dragun (1988) as follows: > 10 immobile, 2 to 10 low mobility, 0.5 to 2 intermediate mobility, 0.1 to 0.5 mobile, and < 0.1 very mobile. According to Adams (1972), K_{OC} values can range from 1 to 10^7. Chemicals with a log K_{OC} of > 4 will adsorb to soil OC, while chemicals with a low log K_{OC} of < 3 will not readily adsorb to soil OC. Generally, the higher the value, the less mobile the organic. Additional discussion on the importance of TOC and clay mineralogy in adsorption processes is presented below.

<u>Organic Carbon Content</u>

The fraction of TOC in geologic materials is strongly correlated with the potential for adsorption of contaminants in the subsurface, especially for adsorption of organic compounds. The partitioning of organic contaminants from the dissolved phase to the solid phase is usually proportional to the TOC content of the media. TOC content also influences biodegradation. Microorganisms, which are required to catalyze chemical-degradation reactions, are dependent on organic carbon as a food source.

The TOC content measured from 24 samples collected at Landfill No. 5 during the Phase I RFI ranged from non-detect to 0.57 percent with TOC not reported in 23 samples at a laboratory limit of 0.2 percent. The reported TOC content in soil samples collected at Landfill No. 5 is relatively low. Literature (McCarthy and Zachara 1989) reveals that whether chemicals adsorb onto organic or inorganic materials depends on the fraction of TOC relative to a specific critical level of TOC. This critical level is chemical-specific and dependent on site conditions. As the TOC content approaches the critical level, organic adsorbents begin to dominate the adsorption process. However, if the fraction of TOC is small, adsorption of organic chemicals to inorganic adsorbents (mostly clay) is important.

Clay Content and Mineralogy

Clay content and mineralogy are important parameters affecting the adsorption of both organic and inorganic chemicals. A high content of clay in geologic materials provides favorable conditions for adsorption because of the following: (1) clay minerals have negatively charged surfaces and behave as inorganic adsorbents; (2) clays have relatively large surface areas, and adsorption tends to be greater when the surface area of the media is greater (all other factors being equal); and (3) substantial clay content in geologic materials tends to reduce the effective permeability, thereby reducing migration velocities and increasing residence time so that the probability of geochemical processes approaching equilibrium is increased.

Based on the geologic characterization presented in Section 3.0, clay content in much of the geologic materials underlying Landfill No. 5 covers a range from 4 to 27 percent. Grain-size analyses (Table 3.5-2) show that the average clay content in 16 samples collected during the Phase I RFI at Landfill No. 5 is 11 percent with three samples exhibiting clay content above 20 percent.

Clay mineralogy is potentially significant to the adsorption process because the surface area and the CEC of clays varies with the specific mineralogy. The common clay minerals can be divided into five groups: smectites, vermiculites, illites, kaolinites, and chlorites. Their specific surface areas in terms of meters^2/gram (m^2/g) and CEC can vary by orders of magnitude. Limited site-specific information on clay types for surficial soils and subsurface materials is

available for Cannon AFB, and specific clay types present at Landfill No. 5 have not been determined.

5.2.4 Biodegradation

Biodegradation, including biotransformation, occurs via microorganisms that may be either attached to the soil, or present in the soil pores, or in solution. Factors affecting biodegradation rates include composition and size of the microbial population, presence of a suitable and available substrate (i.e., energy source), soil acidity and alkalinity, soil temperature and moisture, presence of essential inorganic elements, chemical concentration, oxygen availability, and adsorption (Dragun 1988). Typically, biodegradation rates are measured in half-lives which are defined as the time required for microbial degradation to reduce a chemical concentration by half. Biodegradation is typically associated with organics and not metals. Although for some metals (e.g., iron and sulfur) microorganisms do play a significant role in controlling reaction rates, the effects of such microbially mediated reactions appears to be less well understood than for organics. Half-lives for organics only in soil are cited in Table 5-2.

Frequently, the half-lives cited for organics can vary greatly. This variation is likely due to reductions below optimum in at least one of the above referenced factors which can thereby control the reaction rate (Dragun 1988).

5.2.5 Other Physical and Chemical Properties

The four processes previously discussed in this section probably represent the most important controls on the fate and transport of COIs at Landfill No. 5. However, it is important to recognize that other properties or processes also exist which could contribute to contaminant mobility and fate. Some of these properties and processes include bioconcentration, complexation, dehydrohalogenation, diffusion, hydrolysis, oxidation, photolysis, precipitation, reduction, and solubility in solvents. These additional factors were not discussed because, individually, they are not considered to be as significant as the volatilization, aqueous solubility, adsorption, and biodegradation processes.

5.3 CONTAMINANT PERSISTENCE

Within a particular medium, physical, chemical, and biological processes will affect the persistence of chemicals. Using the information on potential pathways and physical and chemical properties, together with the nature and extent of contamination information for Landfill No. 5 (Section 4.0), the persistence of metals, VOCs, and SVOCs is discussed in this section for soil only since groundwater was not addressed during the Phase I RFI. Generalizations are drawn from these information sources, as well as site geologic and hydrogeologic features, to provide qualitative information on fate and transport for the classes of chemicals identified.

5.3.1 Semivolatile Organics

The SVOCs detected at Landfill No. 5 have been broadly classified as PAHs, PCBs, and phenols. For the purposes of this discussion, the PCBs are considered SVOCs.

Polynuclear Aromatic Hydrocarbons

The PAH COIs identified in Table 5-1 (i.e., acenaphthene, chrysene, fluoranthene, fluorene, and pyrene) were associated with subsurface soils collected from two soil borings, 113-01 and 113-13, at Landfill No. 5.

Based on information provided earlier in Table 4-35, PAHs were typically detected at low concentrations (i.e., less than 221 μg/kg) below the laboratory reporting limit and were, therefore, qualified as estimated values. Additionally, PAHs were detected in only 5 samples of 160 samples (i.e., a frequency of 3 percent) collected during the Phase I RFI and fewer compounds were generally detected and at lower concentrations with depth as shown in Table 4–35 for boring 113-13.

Based on the above information and following discussion, the PAH compounds could be relatively persistent but their transport potential appears to be limited because:

- Solubility of PAH compounds in water is low (i.e., less than 4 mg/l, Table 5–2)

- Log K_{ow} for the PAH compounds is greater than 4, indicating low mobility (Table 5–2).

- Except for acenaphthene, log K_{oc} values are greater than 3 and in most cases greater than 4, indicating that PAHs will readily adsorb to organic carbon material found in subsurface soil, thus limiting mobility.

Although the PAH compounds may be relatively persistent, biodegradation rates shown in Table 5–2 suggest that short half-lives (i.e., less than 108 days) for acenaphthene and fluorene could lead to significant contaminant concentration reduction within a short time frame for these PAHs. Longer half lives for chrysene, fluoranthene and pyrene (i.e., up to 5 years for pyrene) indicate that these compounds are likely to be persistent for much longer time periods.

Phenols

As presented earlier in Section 4.0 and in Table 4-35, 3 SVOCs in the phenol group (i.e., 4-methylphenol, 4-nitrophenol and phenol) were detected in 6 subsurface soil samples collected at Landfill No. 5 at concentrations ranging from 40J µg/kg to 360 µg/kg. Except for the one detection of phenol at 360 µg/kg at a depth of 28 feet in boring 113-01, all other detections were below the laboratory reporting limit and were, therefore, qualified as estimated. Phenol was detected at concentrations ranging from 40J µg/kg to 360 µg/kg in 3 samples, one from each of 3 borings. 4-Methylphenol was detected twice from samples collected in borings 113–16 and 113–24 at concentrations of 68J µg/kg to 100J µg/kg (Table 4–35). 4-Nitrophenol was detected at concentrations of 49J µg/kg and 68J µg/kg in two samples collected from boring 113-5.

Unlike the PAHs discussed earlier, the phenols have comparatively high mobility because:

- A high solubility in water ranging from 16,000 to 93,000 mg/l (Table 5-2) indicates potential for high mobility.

- Log K_{ow} values near 1 and log K_{oc} values less than 3 indicate that the phenols are highly mobile and will not readily adsorb to organic carbon material found in subsurface soil.

With regard to persistence in soil at Landfill No. 5, the relatively short biodegradation half lives (i.e., less than 30 days) shown in Table 5-2 suggest that chemical concentrations could be significantly reduced in a short time frame, thus lessening the persistence of phenols in subsurface soil at Landfill No. 5.

Polychlorinated Biphenyls

PCB (Aroclor 1254) was detected in only 2 of 160 soil samples collected during the Phase I RFI. PCB was detected at 75 µg/kg at a depth of 45 feet in boring 113–16 and at 25 µg/kg in a surface soil sample collected at boring 113–19. These concentrations are comparatively low.

Given the limited detection of PCB during the Phase I RFI (i.e., detected in approximately 1 percent of samples collected) and the following information it appears that, similar to that discussed for PAHs, PCB has limited migration potential in soil because:

- Solubility in water is less than 0.5µg/l

- Log K_{ow} and log K_{oc} greater than 4 both indicate the chemical is very hydrophobic and readily adsorb to organic carbon material in subsurface soil (Table 5–2).

5.3.2 Volatile Organics

Seven VOCs of interest for Landfill No. 5 are presented in Table 5–1 and include 1,1,2,2-tetrachloroethane, 4-methyl-2-pentanone, acetonitrile, carbon disulfide, ethylbenzene, styrene, and toluene. The nature and extent of these VOCs were addressed previously in Section 4.0 and a summary of detections of these compounds was presented in Table 4–36. Ranges of detected concentrations and the frequency of detection are summarized below:

Chemical	Concentration Range (μg/kg)	Frequency of Detection (% of samples analyzed)
1,1,2,2-Tetrachloroethane	2.3J to 8.2	2.2
4-Methyl-2-pentanone (MIBK)	2.5J to 230	3.0
Acetonitrile	165J to 67J	2.5
Carbon disulfide	2.9J	0.5
Ethylbenzene	1.3J to 300	1.0
Styrene	8.2 to 1400	1.0
Toluene	1J to 4.9J	8.0

Most of the VOCs were detected at low concentrations below the laboratory reporting limit and were therefore qualified as estimated.

The physical and chemical properties of the VOCs of interest detected at Landfill No. 5 presented in Table 5–2 indicate that most of the VOCs are likely to be mobile in a soil environment because:

- The VOCs are medium to highly soluble in water with solubility values ranging from 208 mg/l to 17,000 mg/l (Table 5-2).

- Log K_{ow} values ranging from 1.09 to 3.13 indicate intermediate mobility properties.

- Log K_{oc} values ranging from 0.79 to 2.87 suggest that the VOCs will not readily adsorb to organic carbon material present in soil.

Although the VOCs are likely to be mobile in the soil environment, several factors can limit VOC persistence in soil at Landfill No. 5 as discussed below.

Information provided in Table 5–2 (i.e., Henry's Law Constant) indicates that carbon disulfide, ethylbenzene, styrene and toluene are highly volatile and will likely partition to a vapor phase quite readily. The remaining VOCs (acetonitrile, 1,1,2,2-tetrachloroethane and 4-methyl-2-pentanone) of interest have an intermediate tendency to volatilize. Additionally, the short biodegradation half lives (i.e., 1 to 28 days) in soil for the VOCs of interest (excluding the

chlorinated solvent 1,1,2,2-tetrachloroethane) indicate that these chemicals will likely not readily persist in a subsurface environment for long periods of time and the potential for biodegradation to reduce chemical concentrations is quite high. The compound 1,1,2,2-tetrachloroethane will likely persist in the environmental as biodegradation occurs very slowly if at all under aerobic conditions found in the vadose zone at Landfill No. 5.

5.3.3 Metals

The metals which are considered to be COIs for Landfill No. 5 include aluminum, barium, beryllium, chromium, cobalt, copper, lead, manganese, nickel, silver, tin, vanadium and zinc (Table 5–1). The nature and extent of these metals was previously addressed in Section 4.0 and detections above the background range were summarized in Table 4–32.

It is interesting to note from Table 4-32 data that a majority of detections of metals of interest above the background range were isolated instances, meaning that metals were typically detected above background at one sample interval in the vertical sampling profile within a boring and was rarely found above background in other samples collected within the same boring. Exceptions to this include detections of vanadium in boring 113–08, nickel in boring 113–10 and copper in boring 113-16.

With regard to mobility and persistence of metals in subsurface soil at Landfill No. 5, current site data do not allow a quantitative estimate of these properties. However, it is expected that metal complexes in soil or water will form reaction products that get incorporated into soil minerals, precipitate as oxide or hydroxide minerals, or form coating on minerals (Dragun 1988). It is expected that most of the metals will be assimilated into oxide, hydroxide, or oxyhydroxide complexes within soil or water. Based on existing site information, several generalizations can be made:

- Within this area of the Ogallala Formation (i.e., the uppermost geologic unit at Landfill No. 5), the predominant clay minerals are montmorillonites and attapulgite. The CEC for montomorillonite clays are generally quite high and range from 80 to 150 milliequivalents per 100 grams (meq/100 g) (Dragun 1988) while the CEC values for the attapulgite will be probably less than

50 meq/100 g. Based on grain-size information collected during this investigation, the clay content of subsurface soil material averaged 11 percent and was greater than 20 percent in several samples. The relatively high CEC of clays within the Ogallala Formation and a moderate clay content would suggest that the mobility of metals of interest in subsurface soil at Landfill No. 5 would be limited because of adsorption of metals to clay surfaces.

- The pH of soil can also influence mobility of metals. For example, alkaline or near-neutral pH values usually result in negatively charges surfaces on clays and relatively high CEC and action adsorption values (Dragun 1988). The alkaline pH of 7.0 to 8.0 reported in the Curry County Soil Survey (USDA 1958) for soil at Cannon AFB suggests that cation exchange and cation adsorption are probably significant transport processes for metals. Additionally, at soil pH values greater than 5 or 6, most inorganic cations will precipitate as hydroxides or carbonates (i.e., caliche); therefore, their mobility in the vadose zone will be reduced.

Available information indicates that metals in subsurface soil at Landfill No. 5 are probably not very mobile but are likely to be persistent.

In summary, COIs for Landfill No. 5 were grouped into SVOCs, VOCs and metals to evaluate fate and transport. The following conclusions can be drawn from the evaluation:

<u>SVOCs</u>

- PAH compounds are likely to be relatively immobile, but could persist for long periods of time in the subsurface soil environment due to low biodegradation rates.

- PCBs are likely to be relatively immobile and may persist in the subsurface soil environment.

- Phenol compounds appear to be highly mobile but would not likely persist for long periods of time in the subsurface soil environment due to high biodegradation rates.

VOCs

As a group, the VOCs are likely to be medium to highly mobile in the subsurface soil environment. However, these chemicals would not likely persist for long periods of time due to high volatilization potential and very high biodegradation rates (excluding the chlorinated solvent 1,1,2,2-tetrachloroethane). When considering biodegradation, 1,1,2,2-Tetrachloroethane could persist in the environment since biodegradation of this compound occurs very slowly if at all under aerobic conditions with low organic carbon content, as found in the vadose zone at Landfill No. 5.

Metals

Based on general characteristics of subsurface soil at Landfill No. 5 which include moderate clay content and an alkaline soil pH, metals are not likely to be mobile in the subsurface but would likely persist for long periods of time. The potential for precipitation of metals in the subsurface, thus limiting downward migration in the vadose zone, is evidenced by caliche layers encountered in the borings drilled during the Phase I RFI.

5.4 EXPOSURE ASSESSMENT

Exposure assessment evaluates the potential for human beings (receptor populations) to be exposed to chemicals at or released from the site (Landfill No. 5 on Cannon AFB). Steps in this exposure assessment include:

- Identification of current and potential future onset and offset land use scenarios
- Identification of current and potential future receptor populations
- Evaluation of exposure pathways

Land uses, potentially exposed receptors, and potentially complete exposure pathways are discussed below.

5.4.1 Current and Future Land Use

On Site: Landfill No. 5 is located in the southeast corner of Cannon AFB. Cannon AFB is currently an operating military facility and is expected to remain as such for the foreseeable future. In addition to the perimeter fence around the base, there is a fence around Landfill No. 5. Therefore, trespassing at the landfill probably does not occur.

Landfill No. 5 is not currently in operation. The only persons entering the landfill are those involved in periodic environmental characterization work at the site (USAF, USCOE, environmental consultants, and drilling companies). One person conducts groundwater sampling of the wells located outside the boundary of Landfill No. 5 for about 5 to 10 hours on a semi-annual basis but does not enter the landfill premises.

Groundwater occurs in the unconfined Ogallala Aquifer, which is the primary source of potable and irrigation water for eastern New Mexico. The Ogallala Aquifer beneath Landfill No. 5 is located at a depth of approximately 270 feet bgs (Gutentag 1984).

Off Site: Lands surrounding Cannon AFB are primarily irrigated farmland. Landfill No. 5 is locally surrounded to the north and east by a sparsely vegetated field and to the south and west by agricultural property. The nearest residence on the base is approximately 4½ miles to the northwest of Landfill No. 5 and the nearest resident outside of the base is to the southeast within approximately 1 mile from Landfill No. 5. Potable and irrigation water are obtained primarily from the Ogallala aquifer.

5.4.2 Potentially Exposed Populations

Current Receptors: Potentially exposed current receptors identified in the exposure pathway flowchart in Figure 5-1 are base workers who occasionally enter the landfill (visits to the site by current base workers are infrequent).

Current residents were not considered potentially exposed receptors because the only potential route of exposure to constituents from Landfill No. 5 was via groundwater use, and there is no evidence of groundwater contamination nor is it expected in the future.

Future receptors: Future land use at Cannon AFB is expected to remain unchanged (i.e., the base is expected to continue its present operations). Landfill No. 5 is currently inactive and fenced off; and future use at the landfill is expected to be used as aircraft operations and maintenance facilities and/or as an open area. Parts of the landfill are in the clear zone for a nearby runway and cannot be used for construction. However, a hypothetical construction scenario was identified in the exposure pathway flowchart in Figure 5-1 to address exposure to both surface and subsurface soil should future excavation activities occur on the landfill.

5.4.3 Exposure Pathways and Routes

A complete exposure pathway requires a chemical source, chemical release mechanism, environmental transport medium, exposure point, and a human intake route. If one of these elements is lacking, the pathway is incomplete and no human exposure can occur. A preliminary exposure pathway flowchart displaying these elements for Landfill No. 5 is shown in Figure 5-1.

The potential sources of chemical emissions from Landfill No. 5 are presented in Figure 5-1. The primary source is buried waste (e.g., general refuse, fuels, oils, and solvents) that has leached or leaked into subsurface soils; the secondary sources are other media, such as surface and subsurface soil or water impacted by release from the primary source.

Percolating and leaching of wastes to subsurface soil is shown as the primary release mechanism. Subsurface soils are an important secondary source of potential chemical release.

Transport mechanisms with the potential to carry contaminants to human exposure points include storm water runoff, infiltration/percolation to groundwater, release of volatiles from surface and subsurface soil to air, fugitive dust emissions, and direct oral and dermal contact with surface and subsurface soil. These transport mechanisms are evaluated below.

- Pathways associated with stormwater runoff are considered to be incomplete because no drainage ways or surface water bodies are present on or in the vicinity of Landfill No. 5. In addition, limited rainfall occurs in the semi-arid climate.

- Pathways associated with groundwater are considered to be incomplete because no viable transport mechanism currently exists between subsurface soil and groundwater. Although leaching of contaminants from subsurface soil to groundwater by infiltration/percolation could potentially occur, the large distance between the groundwater table and potentially contaminated subsurface soil (over 200 feet) and the low levels of precipitation in the semi-arid environment have apparently prevented transport of contaminants from subsurface or groundwater. In support of the lack of a viable transport mechanism from subsurface soil to groundwater, samples collected at five monitoring locations indicated that groundwater beneath Landfill No. 5 had not been impacted by past activities at the landfill (W-C 1992).

- Transport of VOCs to air, fugitive dust emissions, and direct contact are each viable transport mechanisms for surface soil and for subsurface soil (following construction activities).

Therefore, the following pathways were considered potentially complete.

Current on-site base workers:

- Inhalation of VOCs released from soil into outdoor air
- Inhalation of surface soil constituents in windblown dust
- Ingestion of surface soil
- Dermal contact with surface soil

Future on-site construction workers:

- Inhalation of VOCs released from soil into outdoor air
- Inhalation of surface soil in windblown dust
- Ingestion of surface soil
- Dermal contact with surface soil
- Inhalation of subsurface soil in fugitive dust due to wind and construction activities

- Ingestion of subsurface soil
- Dermal contact with subsurface soil

5.4.4 Exposure Scenarios Evaluated in the Human Health Risk Screen (HHRS)

Section 5.4.3 identified exposure scenarios and potentially complete pathways for Landfill No. 5. In Section 6.0, the human health risk screen (HHRS) evaluates one exposure pathway (soil ingestion for onsite residents). Although the HHRS is not site specific (i.e., residential exposure is not expected and not all potentially complete pathways are evaluated), it is very conservative and is likely protective of the site-specific exposure scenarios identified in Section 5. This conclusion is supported by an evaluation of potentially complete pathways not assessed in the HHRS (Section 6.3.1), which indicated that including the dermal and inhalation routes of exposure for soil in the HHRS would not have significantly increased estimates of hazard/risk.

TABLE 5-1

CHEMICALS OF INTEREST
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Inorganics	Organics	
Aluminum	1,1,2,2-Tetrachloroethane (VOC)	Chrysene (SVOC)
Barium	4-Methyl-2-pentanone (MIBK) (VOC)	Ethylbenzene (VOC)
Beryllium	4-Methylphenol (SVOC)	Fluoranthene (SVOC)
Chromium	4-Nitrophenol (SVOC)	Fluorene (SVOC)
Cobalt	Acenaphthene (SVOC)	Phenol (SVOC)
Copper	Acetonitrile (VOC)	Pyrene (SVOC)
Lead	Aroclor 1254	Styrene (VOC)
Manganese	Carbon disulfide (VOC)	Toluene (VOC)
Nickel		
Silver		
Tin		
Vanadium		
Zinc		

VOC = volatile organic compound
SVOC = semivolatile organic compound

TABLE 5-2

PHYSICAL AND CHEMICAL PROPERTIES OF ORGANIC CHEMICALS OF INTEREST[(1)]
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Chemical	Molecular Formula	Molecular Weight (g/mole)	Water Solubility[1] (mg/L)	Vapor Pressure[1] mmHg	Henry's Law Constant[1] (atm-m^3/mole)	Log K_{ow}[1]	Log K_{oc}[1]	Biodegradation Rate in Soil[2] (half-life in days)
Volatile Organic Compounds								
Acetonitrile	CH_3CN	41	NA	NA	NA	NA	NA	7-28
Carbon disulfide	CS_2	76	2,000-2,940 at 20°C	297.5-300 at 20°C	$1.33x10^{-2}$ (calc)	1.84; 2.16(calc)	2.38-2.55	NA
Ethylbenzene	C_8H_{10}	106	131-208 at 25°C	7.08 at 20°C	$6.44-6.6x10^{-3}$; $8.68x10^{-3}$ at 25°C	3.05-3.15	1.98; 2.41	3-10
Styrene	C_8H_8	104	160-320 at 25°C	5 at 20°C	$2.61x10^{-3}$ (calc)	2.95; 3.16	2.87	14-28
1,1,2,2-Tetrachloroethane	$C_2H_2Cl_4$	168	2,870-2,970 at 25°C; 2,870-3,230 at 25°C	5-8 at 20°C	$3.8x10^{-4}$; $4.56x10^{-4}$ at 25°C	2.56; 2.39	2.07; 1.663	NR[3]
4-Methyl-2-pentanone (MIBK	$C_6H_{12}O$	100	17,000 at 20°C	6-16 at 20°C	$1.49x10^{-5}$ at 25°C (calc)	1.09	0.79 (calc)	1-7
Toluene	C_7H_7	92	490-627 at 25°C	22 at 20°C	$6.7x10^{-3}$; $6.74x10^{-3}$ at 25°C	2.11-2.80	2.06; 2.18	4-22
Semi-Volatile Organic Compounds								
4-Methylphenol	C_7H_8O	108	22,600-24,000 at 40°C	0.08-0.12 at 25°C	$7.92x10^{-7}$ at 25°C	1.67-3.01	1.69	≤1
4-Nitrophenol	$C_6H_5NO_3$	139	16,000-25,000 at 25°C	$1x10^{-4}$ at 20°C	$3.0x10^{-5}$ at 20°C (calc)	1.85-2.04	1.74; 2.33	≈1.2
Acenaphthene	$C_{12}H_{10}$	154	3.47-3.93 at 25°C	$1x10^{-3}$-$1x10^{-2}$ at 20°C	$1.5-2.41x10^{-4}$; $7.92x10^{-5}$ at 25°C	3.92; 4.33	1.25	12-102
Chrysene	$C_{18}H_{12}$	228	0.0018-0.006 at 25°C	$6.3x10^{-7}$ at 20°C	$7.26x10^{-20}$ (calc)	5.60-5.91	5.39	365-993
Fluoranthene	$C_{16}H_{10}$	202	0.206-0.373	$5.0x10^{-6}$ at 25°C	$1.69x10^{-2}$ at 25°C	5.22	4.62	140-440
Fluorene	$C_{13}H_{10}$	166	1.6622-1.98 at 25°C	$1.95x10^{-4}$ at 35°C	$2.1x10^{-4}$	4.12-4.38	3.70	32-60
Phenol	C_6H_6O	94	82,000-84,000 at 20°C	0.2 at 20°C	$3.97x10^{-7}$ at 25°C	1.48; 1.46	1.43; 1.24	1-10
Pyrene	$C_{16}H_{10}$	202	0.132-0.171 at 25°C	$2.5x10^{-6}$ at 25°C; $6.85x10^{-7}$ at 25°C	$1.09x10^{-5}$; $1.87x10^{-5}$	4.88-5.32	4.66-5.13	210-1898
Polychlorinated Biphenyls								
Aroclor 1254	ND	327	0.05 at 20°C	$7.71x10^{-5}$ at 25°C; $6x10^{-5}$ at 20°C	$2.3-2.7x10^{-3}$	5.61-6.47	5.61	NA

TABLE 5-2

PHYSICAL AND CHEMICAL PROPERTIES OF ORGANIC CHEMICALS OF INTEREST[1]
(Concluded)

Notes:
All values at 25°C where noted in reference and/or unless otherwise specified.
All references from Montgomery and Welkom 1990, except 6, 7, 13, 17, 26, 34 and 35 from Dragun 1988

g	grams	atm-m3/mo	cubic meters of atmosphere per mole
mg/L	milligrams per liter	Kow	octanol water partition coefficient
mmHg	millimeters of mercury	Koc	Organic carbon partition coefficient

(1) Groundwater Chemicals Desk Reference, Montgomery, John H. and L.M. Welkom, 1991.
(2) Handbook of Environmental Degradation Rates, Howard, Phillip H. et al., 1991.
(3) Chlorinated solvents biodegrade very slowly if at all under aerobic conditions as in the vadose zone at Landfill No. 5 and therefore a biodegradation rate for 1,1,2,2-Tetrachloroethane is not relevant.

ND Not definitive. PCB-1254 is a mixture of many biphenyls with varying degrees of chlorination. According to Hutzinger [1], the approximate composition of PCB-1254 by weight is as follows: biphenyls (<0.1%), chlorobiphenyls (<0.1%), dichlorobiphenyls (0.5%), trichlorobiphenyls (1%), tetrachlorobiphenyls (21%), pentachlorobiphenyls (48%), hexachlorobiphenyls (23%), and heptachlorobiphenyls (6%).
NA Not available in references cited

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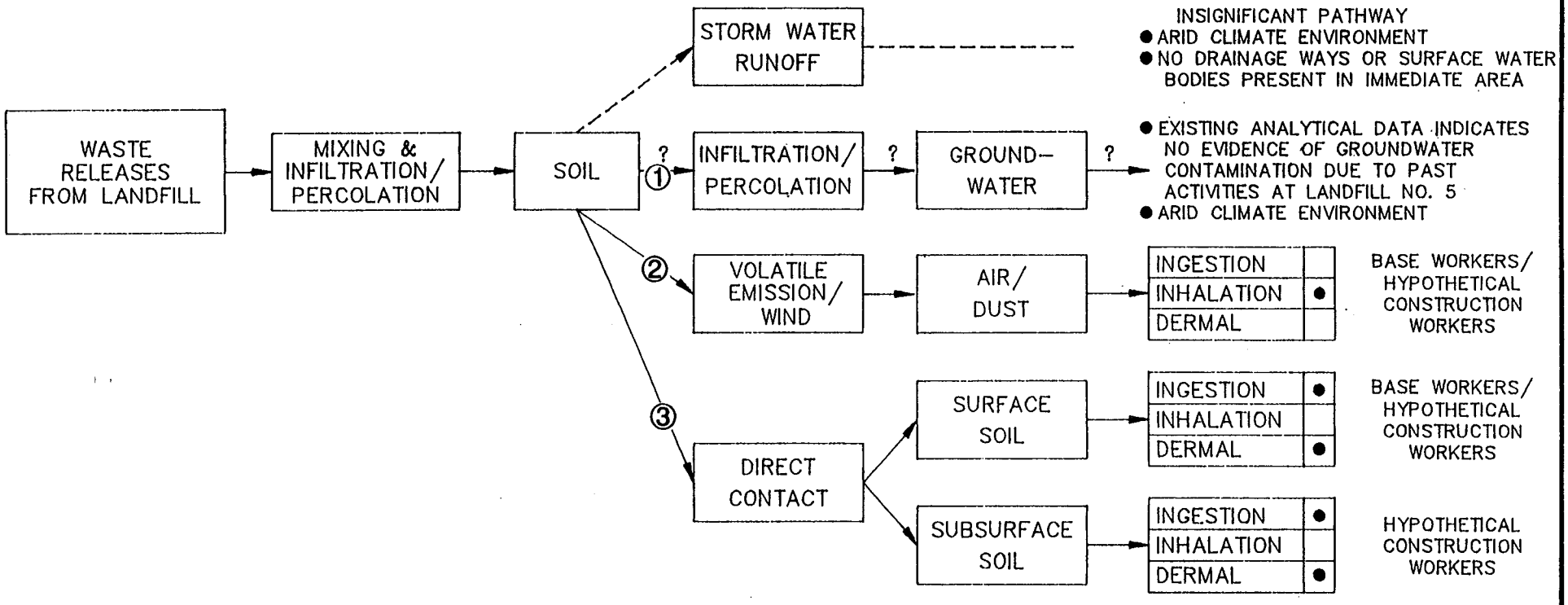


NOTES:

SOLID LINES REPRESENT POTENTIALLY COMPLETE PATHWAYS

DASHED LINES REPRESENT INCOMPLETE PATHWAYS

① EXPOSURE PATHWAY NUMBER

DRN BY JTA	DATE 08/19/93	PRELIMINARY EXPOSURE PATHWAY FLOW CHART LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5) CANNON AIR FORCE BASE NEW MEXICO	PROJECT NO.	FIG. NO.
CHK'D BY .	REVISIONS: 0		C3M11M	5-1

6.0
HUMAN HEALTH RISK SCREEN

The purpose of the HHRS in the Phase I RFI is to determine whether COIs (defined in Section 6.1) were detected in soils at levels that may pose an unacceptable risk to human health. The HHRS was performed according to Step No. 5 identified in the Phase I RFI Work Plan Decision Diagram (W-C 1995) (Figure 6-1).

The evaluation is screening level because it compares maximum detected chemical concentrations regardless of sample depth to risk-based screening concentrations (i.e., proposed RCRA Action Levels for soil ingestion assuming residential use [EPA 1990a]). The HHRS does not include estimating reasonable exposure concentrations or assessing current or future site-specific exposure conditions (e.g., future residential land use is considered to be extremely unlikely at this site). Therefore, the HHRS will overestimate hazard/risk at the site and will be protective of exposure pathways identified in Section 5.4.

As indicated in Figure 6-1, if concentrations of COIs do not exceed proposed RCRA Action Levels then no further action is recommended. If site concentrations exceed proposed RCRA Action Levels, then further evaluation of the site may be warranted.

6.1 METHODOLOGY

Steps in the HHRS, shown in Figure 6-1, included:

- Assessing whether an imminent threat to human health or the environment was present
- Identifying COIs, defined as potentially hazardous constituents (above background for inorganic analytes) for which proposed RCRA Action Levels were available or could be calculated using EPA-approved toxicity values
- Comparing maximum concentrations of chemicals of interest to proposed RCRA Action Levels

- Estimating cumulative risk from exposure to multiple chemicals

The methods used in performing these steps are summarized below.

6.1.1 Imminent Threat Evaluation

Physical and chemical data were reviewed and an evaluation was made to determine whether an imminent threat to human health and the environment was present (Section 6.2.1). If an imminent threat is evident, then the need for interim action will be evaluated. If no threat is apparent, no interim action is necessary and the HHRS proceeds to the next step, identification of chemicals of interest.

6.1.2 Identification of Chemicals of Interest

COIs in soil were defined as chemicals detected in surface or subsurface soil that exceeded background levels and for which either a proposed RCRA Action Level was available or could be calculated using an EPA-approved toxicity value.

Detected Chemicals: Analytical results for detected chemicals in surface and subsurface soil were discussed in Section 4.0, Nature and Extent. Appendix E of this report contains all the validated soil data results for these samples. Detected chemicals included VOCs, herbicides/ pesticides/PCBs, SVOCs, inorganics, and TICs. The possible contribution of TICs to hazard/ risk at the site is discussed separate from other analytes in Section 6.3.

Background Comparison: Detected inorganic analytes in soil were evaluated to determine whether site concentrations exceeded background levels (Section 6.2.2). The background range for inorganics established for Cannon AFB are shown in Table 4-32. For the background comparison, maximum detected site concentrations were compared to the 95% upper tolerance limit (95% UTL, estimated as the arithmetic mean plus two standard deviations) of background soil concentrations. Analytes whose maximum detected site concentration exceeded the 95% UTL of the background concentrations were retained for further screening for chemicals of interest.

Availability of RCRA Action Levels and EPA Toxicity Values: Inorganic analytes whose site concentration exceeded background levels and all detected organic compounds were evaluated to determine whether proposed RCRA Action Levels were available or could be calculated using EPA-approved toxicity values (Section 6.2.2). Proposed RCRA Action Levels are based on EPA chronic residential exposure assumptions and are intended as screening levels at RCRA facilities to determine whether a more detailed health risk evaluation (CMS) is warranted (EPA 1990a).

Chemicals without either a proposed RCRA Action Level or an EPA toxicity value were evaluated qualitatively for potential hazard/risk in Section 6.3.

6.1.3 Comparison of Maximum Concentrations to Proposed RCRA Action Levels

Maximum detected concentrations for COIs were compared to chemical-specific proposed RCRA Action Levels derived based on the soil ingestion pathway. Proposed RCRA Action Levels were calculated using current (October 1995) EPA oral toxicity values, and equations and exposure parameters (shown below) from 55 FR 30798, EPA Proposed Corrective Action Rule for Solid Waste Management Units (EPA 1990a).

The equation for calculating proposed RCRA Action Levels for noncarcinogenic compounds is:

$$Cnc = (HI * RfD * BWc)/(IRc * A * CF)$$

where:

Cnc	=	Proposed noncarcinogenic RCRA Action Level in soil		
HI	=	Target hazard index	=	1 (unitless)
RfD	=	EPA oral reference dose	=	chemical specific (mg/kg-day)
BWc	=	Body weight for 5-year-old child	=	16 kg
IRc	=	Soil ingestion rate for a child	=	0.2 g/day
A	=	Absorption Factor	=	1 (unitless)
CF	=	Conversion factor	=	0.001 kg/g

The equation for calculating proposed RCRA Action Levels for carcinogenic compounds is:

$$Cc = (R * BWa * LT)/(IRa * SF * A * CF * ED)$$

where:

Cc	=	Proposed carcinogenic RCRA Action Level in soil		
R	=	Risk target level for class A, B1, and B2 carcinogens	=	1E-06 (unitless)
SF	=	EPA oral slope factor	=	chemical specific $(mg/kg\text{-}day)^{-1}$
BWa	=	Body weight for an adult	=	70 kg
LT	=	Lifespan	=	70 years
IRa	=	Soil ingestion rate for an adult	=	0.1 g/day
A	=	Absorption Factor	=	1 (unitless)
CF	=	Conversion factor	=	0.001 kg/g
ED	=	Exposure duration	=	70 years

The equations and parameters used to calculate proposed RCRA Action Levels are based on conservative assumptions that will overestimate risk at this site. For example:

- Exposure assumptions assume a lifetime residential scenario and include childhood exposure. Current residents on and off the base are not exposed to chemical constituents from the landfill, and future residential land use at Landfill No. 5 is considered extremely unlikely. Instead, potential receptors identified in Section 5.4 are current adult base workers and future construction workers whose exposure would be expected to be lower than that for the residential scenario assumed in calculating proposed RCRA Action Levels

- Proposed RCRA Action Levels are calculated assuming a target cancer risk level of 1E-06, whereas EPA's target cancer risk range for multiple chemical exposure extends two orders of magnitude higher to 1E-04 (EPA 1990b, 1991).

Proposed RCRA Action Levels were derived for the soil ingestion pathway only. Therefore, the HHRS did not evaluate hazard/risk for the dermal and inhalation exposure pathways, each identified as potentially complete pathways in the exposure assessment (Section 5.4). As discussed in Section 6.3.1, excluding the dermal and inhalation routes of exposure in the HHRS probably did not significantly affect estimates of hazard/risk at Landfill No. 5.

Because numerous conservative assumptions were used in calculating proposed RCRA Action Levels, exceedence of RCRA Action Levels by site concentrations does not necessarily indicate the presence of unacceptable risk at the site. For example, estimated cumulative cancer risk in the current assessment at Cannon AFB (4E-06) was well within EPA's target risk range of 1E-06 to 1E-04 for hazardous waste sites, even though the maximum concentration of the carcinogen beryllium exceeded its proposed RCRA Action Level (Section 6.2.4).

6.1.4 Evaluation of Cumulative Health Hazard/Cancer Risk

In addition to comparing maximum site concentrations to proposed RCRA Action Levels, potential cumulative effects of ingestion of multiple chemicals were also addressed. A total hazard index for ingestion of multiple noncarcinogenic chemicals was estimated by:

- determining the ratio of the maximum site concentration to the proposed RCRA Action Level for each chemical of interest

- summing the ratios (hazard quotients) to yield a hazard index

If the total hazard index is less than or equal to 1, exposure to noncarcinogenic chemicals of interest at the site are judged unlikely to result in adverse noncarcinogenic health effects (EPA 1989).

Chemical-specific cancer risk was determined by calculating the ratio of the maximum site concentration to proposed RCRA Action Level for each COI, then multiplying that ratio by 1E-06. Cancer risk estimates for each chemical were then summed to give cumulative cancer risk for the site. EPA's target range for cancer risk is 1E-06 to 1E-04 (EPA 1990b, 1991).

6.2 RESULTS OF THE HHRS

This section shows results for the imminent threat evaluation, identification of COIs, chemical-specific comparison of site concentrations to proposed RCRA Action Levels, and estimation of cumulative health hazards and cancer risk.

6.2.1 Imminent Threat Evaluation

Based on field observations and analytical results, no imminent threat to human health or the environment is present at Landfill No. 5. This conclusion was supported by the results of this HHRS, in which no chemical of interest significantly exceeded its proposed RCRA Action Level.

6.2.2 Chemicals of Interest

Table 6-1 lists the 43 detected inorganic and organic constituents (except for TICs) in soils, compares maximum site concentrations of inorganic analytes to background concentrations, shows the availability of chemical-specific proposed RCRA Action Levels, and identifies COIs for the site. The 29 COIs identified for evaluation in the HHRS are listed in Table 6-2.

Five detected organic compounds (including TRPH) and six inorganic analytes detected above background did not have proposed RCRA Action Levels or EPA-approved toxicity factors (Table 6-1). The potential contribution of these analytes to hazard/risk at the site is discussed qualitatively in Section 6.3.

Detected TICs, shown in Table 6-6, were not quantitatively evaluated in this HHRS. Instead, TICs were evaluated qualitatively for potential hazard/risk in Section 6.3.

6.2.3 Comparison of Site Exposure Concentrations to Proposed RCRA Action Levels

Results of the chemical-specific and cumulative hazard/risk evaluation of chemicals of interest are summarized in Tables 6-3 and 6-4.

Carcinogens: The maximum concentrations of one carcinogenic COI, beryllium, exceeded its proposed RCRA Action Level (Table 6-3), with an associated cancer risk of 4E-06. However, the maximum site value of 0.7 mg/kg for beryllium only slightly exceeded the 95% UTL of the background concentration of 0.6 mg/kg for beryllium, suggesting that beryllium at the site may be naturally occurring rather than site related.

Because the maximum concentration is usually not representative of an average exposure concentration, the 95% UCL of the arithmetic mean was calculated from the Phase I RFI sampling data for beryllium, using one-half of the sample quantitation limit for soil samples that were nondetect (Table 6-5). The 95% UCL is recommended by EPA as the exposure concentration to be used in estimating site risk (EPA 1989, 1994a). The 95% UCL of 0.24 mg/kg for beryllium slightly exceeds the proposed RCRA Action Level of 0.2 mg/kg, yielding a ratio of 1.2.

Noncarcinogens: No noncarcinogenic COI exceeded its proposed RCRA Action Level, indicating that the hazard quotient for each chemical was less than 1 (Table 6-4).

6.2.4 Evaluation of Cumulative Health Hazards/Cancer Risks

Carcinogens: The cumulative cancer risk for COIs, estimated by multiplying the cumulative ratio by 1E-06, was 4E-06 due primarily to beryllium (maximum concentration of 0.7 mg/kg) (Table 6-3). This cancer risk is well within EPA's target cancer risk range of 1E-06 to 1E-04 (EPA 1990b).

The cancer risk for beryllium using the 95% UCL site exposure concentration of 0.24 mg/kg is 1.2E-06, which is approximately equal to EPA's "point of departure" of 1E-06, indicating negligible cancer risk (EPA 1990b).

Noncarcinogens: The sum of the chemical-specific ratios for noncarcinogenic chemicals of interest was 1 (Table 6-4). The primary contributor to the hazard index was barium at a concentration of 5600 mg/kg (hazard quotient of 0.8), in a sample obtained at a depth of 46 feet where human exposure would not occur. Because of the depth of the sample and the low mobility of most metals, the barium is probably natural occurring. In addition, barium can

substitute for calcium in caliche-rich zones that may explain concentrations of barium above the maximum background range. In addition, further evaluation of barium at the site indicates that the maximum detected value of 5600 mg/kg is not representative of site-wide barium concentrations. The 95% UCL of the arithmetic mean of barium is 293 mg/kg (Table 6-5). The hazard quotient using the 95% UCL exposure concentration of 293 mg/kg is 0.04, indicating that the average concentrations of barium at the site will not pose a risk to human health.

6.3 UNCERTAINTY IN THE ASSESSMENT

6.3.1 Uncertainty Associated with Performing a Screening-Level Risk Assessment

Because this was a screening-level risk assessment, conservative assumptions were used throughout the assessment to ensure that risk was not underestimated, including:

- The use of conservative exposure assumptions (e.g., assuming residential exposure overestimates actual exposure at the site) and a target cancer risk level of 1E-06 to calculate proposed RCRA Action Levels for chemicals of interest (Section 6.1.3)

- The use of maximum detected concentrations for chemicals of interest instead of estimating the arithmetic mean

Dermal and inhalation exposure to COIs in soil and to VOCs in outdoor air were potentially complete exposure pathways (Section 5.4). However, these routes of exposure were not evaluated in the HHRS. To evaluate whether excluding these exposure routes has a significant effect on the estimates of risk for Landfill No. 5, maximum site concentrations were compared to EPA Region IX preliminary remediation goals (PRGs) for residential exposure to soil (EPA 1995a). Region IX PRGs are risk-based concentrations similar to RCRA Action Levels, but include residential exposure to soil by the oral, dermal, and inhalation routes. As in the comparison to RCRA Action Levels, only the maximum concentration of beryllium (0.7 mg/kg) exceeded its Region IX PRG of 0.14 mg/kg with an associated cancer risk of 5E-06. No noncarcinogenic COI exceeded its Region IX PRG, indicating that the hazard quotient for each chemical was less than or equal to 1. These results are similar to those using the proposed

RCRA Action Levels for soil ingestion (Section 6.2.3), indicating that excluding the dermal and inhalation routes of exposure for soil in the HHRS has not significantly affected estimates of hazard/risk for this site.

Additional uncertainty exists regarding the potential of TICs and other detected compounds without toxicity factors to adversely affect human health under exposure conditions at the landfill. These compounds are evaluated qualitatively in the followings sections.

6.3.2 Tentatively Identified Compounds

Detected TICs, number of detections, and maximum detected concentrations are shown in Table 6-6. A proposed RCRA Action Level was calculated for only two TICs, acetic acid, ethyl ester (ethyl acetate) and acetic acid, methyl ester (methyl acetate). Other TICs did not have either a proposed RCRA Action Level or an EPA-approved toxicity value. The maximum detected concentration of ethyl acetate was 0.11 mg/kg while the proposed RCRA Action Level was 70,000 mg/kg, yielding a hazard quotient of 2E-06. The maximum detected concentration of methyl acetate was 0.0074 mg/kg while the proposed RCRA Action Level was 80,000 mg/kg, yielding a hazard quotient of 9.3E-08. These values are well below 1 indicating that ethyl acetate and methyl acetate at the site will not pose a threat to human health.

The remaining TICs, which do not have either a proposed RCRA Action Level or EPA-approved toxicity value were categorized as (1) probably nontoxic, (2) toxicity unknown, (3) specific chemical form unknown, and (4) probably related to petroleum products (Table 6-7). These categories of TICs are evaluated qualitatively in the following discussion.

<u>TICs With Unknown Toxicity</u>: Seventeen TICs that could not readily be classified as nontoxic were classified as toxicity unknown (Table 6-7). As discussed below, these TICs were detected infrequently and at low concentrations, suggesting a low potential for human exposure.

- A methylated form of the PAH naphthalene, 1-methylnaphthalene, was detected in 1 of 160 samples at a concentration of 0.076 mg/kg and at a depth of 41 feet. This concentration is substantially less than the Region IX PRG for naphthalene of 800 mg/kg (no proposed RCRA Action Level was available for naphthalene)

indicating that 1-methylnaphthalene at the site is unlikely to pose excess risk to human health. Furthermore, no human exposure would occur at a depth of 41 feet.

- Methylcyclohexane was detected in 6 of 160 samples, at depths of 19 to 25 feet, with a maximum detected concentration of 0.18 mg/kg. A related compound, cyclohexane, is regulated by Occupational Safety and Health Administration (OSHA) for the inhalation route of exposure. Based on low concentrations, infrequent detections, and the presence at depths below the depth typical of excavations (15 feet), potential for human exposure to methylcyclohexane at the site is negligible. Therefore, it is unlikely that this TIC would pose a threat to human health.

- 4,4-difluoro-1,1'-biphenyl was detected in 1 of 160 samples at a concentration of 0.28 mg/kg and a depth of 30 feet. Based on chemical structure, this halogenated biphenyl might be expected to have effects similar to those of PCBs (although the relative potency of this TIC to PCBs is unknown). The maximum site concentration of this compound exceeds the proposed RCRA Action Level for PCBs (0.09 mg/kg) by a factor of 3 (comparable to a cancer risk of 3E-06). Because the potential for human exposure to this TIC at the site is negligible, and potential risk is low based on analogy to PCBs, it does not pose a risk to human health.

- Three TICs are considered hazardous under high exposure conditions (however, toxicity at chronic, low exposure conditions is unknown): 2-butene (explosive), alpha-pinene (skin irritant; poisonous by inhalation), and nonanal (skin irritant). However, these compounds were detected in only 1 of 160 samples at very low concentrations. 2-Butene was detected at a concentration of 0.0086 mg/kg at a depth of 35 feet; nonanal was detected at a concentration of 0.01 mg/kg at a depth of 60 feet; alpha-pinene was detected in surface soil at a concentration of 0.14 mg/kg. Because of low detection frequency and low concentrations, human exposure and risk is low.

- For the 11 TICs listed below, no information on the potential toxicity was found. Based on low concentrations (maximum detected concentrations from 0.007 to 0.8 mg/kg) and infrequent detection (out of 160 soil samples, molecular sulfur was detected twice, stigmast-5-en-3-ol-, [3.beta.,24S]- was detected five times, and other TICs were detected only once), it is unlikely that these TICs pose a threat to human health.

  alpha-amyrin
  2-butenylbenzene
  molecular sulfur
  1-pentene, 4,4-dimethyl
  phenol, 4,4'-butylidenebis[2-(1,1-dimethylethyl]
  bicyclo[2.2.1]heptan-2-one-1,3,3-trimethyl-
  3-cyclohexane-1-methanol,.alpha.,.alpha.4-trim
  cyclopentane carboxylic acid, 2-amino, trans
  eicosanic acid, 2,3-bis[acetyloxy]propyl ester
  stigmast -5-en-3-ol-, (3.beta.,24S)-
  a'-neogammacer-22(29)-en-3-ol,(3.beta.,21.beta.)-

Relatively Nontoxic TICs: Twenty-six TICs were considered to be relatively nontoxic based on chemical form (Table 6-7). These included alcohols, fatty acids, fatty acid esters, and ketones. In general, these TICs were detected infrequently (from one to four detections out of 160 samples) and at low concentrations (ranging from 0.0053 to 4.9 mg/kg) suggesting a low potential for human exposure. Based on low potential for exposure and low toxicity, these TICs would not be expected to pose a risk to human health at the site.

TICs Whose Specific Chemical Form Is Unknown: Five TICs were identified as a chemical class rather than a compound (Table 6-7). For four of these TICs no qualitative discussion of potential toxicity is possible: nitrogen compound, oxygenated hydrocarbon, primary amide, unsaturated hydrocarbon. One TIC, identified only as a "PAH", was detected in one sample at a concentration of 0.19 mg/kg. Because this concentration is less than the proposed RCRA Action Level of 0.9 mg/kg for the most potent PAH, benzo(a)pyrene, and was detected in only one sample, it is unlikely that this TIC would pose an unacceptable risk to human health.

TICs Related to Petroleum Products: Three TICs were relatively nontoxic, saturated hydrocarbons probably related to petroleum products (Table 6-7). The maximum concentrations of these TICs (0.009 to 3.2 mg/kg) were well below typical levels of concern for TRPH in soil (action levels for the State of New Mexico are 50 to 100 mg/kg). Based on low potential for exposure and toxicity, it is not expected that these compounds would pose a threat to human health.

6.3.3 Compounds Without Toxicity Values

Inorganic Analytes: Six inorganic analytes with maximum detected concentrations exceeding the background range did not have either a proposed RCRA Action Level or an EPA-toxicity value (Table 6-1). Calcium, iron, magnesium, potassium, and sodium are relatively nontoxic, essential dietary elements which are unlikely to pose a threat to human health at the levels detected in soil at the site. Lead was detected at a maximum concentration of 78.2 mg/kg, which is less than EPA's screening level of 400 mg/kg for residential childhood exposure to lead in soil at RCRA sites (EPA 1994b). Therefore, lead in soil would not be expected to pose a risk to human health.

Organic Compounds: Eight organic chemicals detected at low concentrations (maximum <0.25 mg/kg) did not have proposed RCRA Action Levels or EPA-toxicity values (Table 6-1). Although the toxicity of these compounds is not known, it is unlikely that they would pose a risk to human health at the low concentrations detected at the site (e.g., the proposed RCRA Action Level in soil for the potent carcinogen vinyl chloride [0.33 mg/kg] is higher than the maximum concentrations of these organic compounds).

TRPH was detected in 10 of 160 samples, with a maximum detected value of 170 mg/kg and an 95% UCL of 25 mg/kg (calculated using one-half of the sample quantitation limit for soil samples that were nondetect). TRPH does not have a proposed RCRA Action Level or an EPA-approved toxicity value. However, the State of New Mexico has action levels of 50 mg/kg for TRPH derived from gasoline and 100 mg/kg for TRPH derived from diesel or waste oil. The source of the TRPH at Landfill No. 5 is not known. However, it is likely that TRPH at the site is weathered and therefore less toxic than fresh product (because potentially toxic volatile constituents such as benzene evaporate and are generally absent in weathered fuel).

This is supported by the lack of detections or very low concentrations of typical volatile fuel constituents in soils at the site (e.g., toluene was detected at a maximum concentration of 0.0049 mg/kg and benzene, ethylbenzene, and xylene were not detected).

6.4 CONCLUSION

Based on the results of the HHRS, it does not appear that chemicals of interest at Landfill No. 5 pose an unacceptable risk to human health.

A HHRS was performed for Landfill No. 5 to determine whether chemicals detected in soils may pose an unacceptable risk to human health. Maximum site concentrations were compared to proposed RCRA Action Levels for residential soil ingestion to evaluate the potential for cumulative hazard/risk. Conservative assumptions were used throughout the HHRS; therefore, the results of the assessment probably overestimate actual hazard/risk at the site.

Only one carcinogen, beryllium had a maximum concentration (0.7 mg/kg) exceeding its proposed RCRA Action Level (0.2 mg/kg). The associated cancer risk assuming a 70-year soil ingestion exposure to the maximum concentration is 4E-06, well within EPA's target cancer risk range of 1E-06 to 1E-04. Estimated cumulative cancer risk from exposure to maximum concentrations of all detected carcinogens was also 4E-06 due to the presence of beryllium. When the 95% UCL of the arithmetic mean is used to represent the exposure concentration of beryllium in soil, the site concentration (0.24 mg/kg) is approximately equal to the proposed RCRA Action Level (0.2 mg/kg) and the chemical-specific cancer risk is approximately 1E-06 from soil ingestion, whereas that for cumulative cancer risk is 2E-06. Because the use of maximum detected concentrations overestimates cancer risk for each chemical of interest, and cancer risk estimates were nevertheless within EPA's target risk range, it is concluded that exposure to COIs at Landfill No. 5 probably does not pose an unacceptable risk of cancer.

No noncarcinogenic chemical had a maximum concentration exceeding its proposed RCRA Action Level. The cumulative hazard index for noncarcinogenic effects was 1, indicating that maximum concentrations of noncarcinogenic chemicals in soil at the site do not pose an unacceptable risk to human health.

TICs and other compounds without toxicity values were evaluated qualitatively and were not considered to pose a threat to human health based on low potential for toxicity and human exposure (due to infrequent detection, detection at depths below 15 feet, and low concentrations).

Based on the results of the HHRS, it is concluded that chemicals of interest at Landfill No. 5 do not pose an unacceptable risk to human health.

TABLE 6-1
SELECTION OF CHEMICALS OF INTEREST
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Detected Constituents (1)	Site Maximum Concentration (mg/kg)	95%UTL of Background Range (mg/kg) (2)	Maximum Concentration Exceeds 95% UTL?	RCRA Action Level or Toxicity Value Available? (3)	Chemical of Interest?(4)
Aluminum	1.11E+04	1.08E+04	Yes	Yes	Yes
Antimony	1.48E+01	2.96E+01	No	Yes	No
Arsenic	5.80E+00	1.05E+01	No	Yes	No
Barium	5.05E+03	5.48E+02	Yes	Yes	Yes
Beryllium	7.00E-01	6.00E-01	Yes	Yes	Yes
Cadmium	6.90E-01	2.10E+00	No	Yes	No
Calcium	2.84E+05	1.66E+05	Yes	No	No
Chromium	4.07E+01	1.20E+01	Yes	Yes	Yes
Cobalt	5.00E+00	4.00E+00	Yes	Yes	Yes
Copper	6.36E+01	1.01E+01	Yes	Yes	Yes
Iron	9.61E+03	8.65E+03	Yes	No	No
Lead	7.82E+01	1.84E+01	Yes	No	No
Magnesium	1.63E+04	9.91E+03	Yes	No	No
Manganese	2.75E+02	1.52E+02	Yes	Yes	Yes
Nickel	3.92E+02	9.70E+00	Yes	Yes	Yes
Potassium	2.97E+03	2.53E+03	Yes	No	No
Silver	4.80E+00	1.80E+00	Yes	Yes	Yes
Sodium	3.92E+03	8.34E+02	Yes	No	No
Thallium	2.30E-01	6.20E+00	No	Yes	No
Tin	5.60E+01	?(5)	?(5)	Yes	Yes(6)
Vanadium	3.67E+01	2.50E+01	Yes	Yes	Yes
Zinc	5.90E+01	2.07E+01	Yes	Yes	Yes
1,1,2,2-Tetrachloroethane	8.20E-03	- (7)	-	Yes	Yes
2-Hexanone	1.10E-02	-	-	No	No
2-Methylnaphthalene	8.50E-02	-	-	No	No
4-Methyl-2-pentanone (MIBK)	2.30E-01	-	-	Yes	Yes
4-Methylphenol	1.00E-01	-	-	Yes	Yes
4-Nitrophenol	6.80E-02	-	-	Yes	Yes
Acenaphthene	8.20E-02	-	-	Yes	Yes

TABLE 6-1
SELECTION OF CHEMICALS OF INTEREST
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Detected Constituents (1)	Site Maximum Concentration (mg/kg)	95%UTL of Background Range (mg/kg) (2)	Maximum Concentration Exceeds 95% UTL?	RCRA Action Level or Toxicity Value Available? (3)	Chemical of Interest?(4)
Acetonitrile	6.70E-02	-	-	Yes	Yes
Aroclor 1254	7.40E-02	-	-	Yes	Yes
Carbon disulfide	2.90E-03	-	-	Yes	Yes
Chrysene	3.80E-02	-	-	Yes	Yes
Dibenzofuran	4.40E-02	-	-	No	No
Ethylbenzene	3.00E-01	-	-	Yes	Yes
Fluoranthene	9.30E-02	-	-	Yes	Yes
Fluorene	6.90E-02	-	-	Yes	Yes
Phenanthrene	2.20E-01	-	-	No	No
Phenol	3.60E-01	-	-	Yes	Yes
Pyrene	8.80E-02	-	-	Yes	Yes
Styrene	1.40E+00	-	-	Yes	Yes
Toluene	4.90E-03	-	-	Yes	Yes
Total Petroleum Hydrocarbon (TPH)	1.70E+02	-	-	No	No

(1) Does not include tentatively identified compounds (TICs), which were evaluated separately in the assessment (see Table 6-6).
(2) 95% Upper Tolerance Limit (95%UTL) of background concentrations as estimated by the mean plus two standard deviations. Background concentrations of inorganics are discussed in Section 4.0 and shown in Table 4-32.
(3) Proposed action levels from 55 FR 30798 (Subpart S, Corrective Action for SWMUs at Hazardous Waste Management Facilities, 27 July 1990). For potential contaminants that did not have proposed RCRA Action Levels but have EPA toxicity factors, action levels were calculated using methodology from 55 FR 30798.
(4) Chemicals of interest were detected organic compounds not considered to be laboratory contaminants and with proposed RCRA Action Levels or EPA-approved oral toxicity values and detected inorganic analytes whose concentration exceeded the background range and who have proposed RCRA Action Levels or EPA-approved oral toxicity values.
(5) Background samples were not analyzed for tin.
(6) In the absence of information about background concentrations of tin, it was assumed that site concentrations of tin exceeded background and tin was selected as a chemical of interest.
(7) A background comparison was not performed for organic compounds.

TABLE 6-2
CHEMICALS OF INTEREST
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Inorganic Compounds	Organic Compounds
Aluminum	1,1,2,2-Tetrachloroethane
Barium	4-Methyl-2-pentanone (MIBK)
Beryllium	4-Methylphenol
Chromium	4-Nitrophenol
Cobalt	Acenaphthene
Copper	Acetonitrile
Lead	Aroclor 1254
Manganese	Carbon disulfide
Nickel	Chrysene
Silver	Ethylbenzene
Tin	Fluoranthene
Vanadium	Fluorene
Zinc	Phenol
	Pyrene
	Styrene
	Toluene

TABLE 6-3
RISK-BASED SCREENING OF CARCINOGENIC CHEMICALS OF INTEREST
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Chemical of Interest	Maximum Concentration (mg/kg)	Proposed RCRA Action Level (mg/kg) (a)	Ratio of Maximum Concentration to Proposed RCRA Action Level	Cancer Risk (b)
1,1,2,2-Tetrachloroethane	8.20E-03	4E+00(c)	2E-03	2E-09
Aroclor 1254	7.50E-02	9E-02(c)	8E-01	8E-07
Chrysene	3.80E-02	1E+01(d)	4E-03	4E-09
Beryllium	7.00E-01	2E-01 (c)	4E+00	4E-06
Cumulative Cancer Risk				4E-06

[ ] = Maximum detected concentration exceeds proposed RCRA Action Level.

(a) Proposed RCRA Action Levels were calculated using guidance in 55 FR 30798 (Subpart S, Corrective Action for SWMUs at Hazardous Waste Management Facilities, 27 July 1990) and current toxicity values from IRIS (EPA 1995b) and HEAST (EPA 1994c). Action Levels are based on residential soil ingestion and 1E-06 (1 in 1,000,000) cancer risk level.

(b) Cancer risk = (Ratio of maximum concentration to Action Level)* 1E-06.

(c) Calculated from toxicity values provided in IRIS (through October 1995) (EPA 1995b).

(d) Calculated from toxicity values provided in USEPA 1993 (Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons, EPA/625/3-89/016).

TABLE 6-4
RISK-BASED SCREENING OF NONCARCINOGENIC CHEMICALS OF INTEREST
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Chemical of Interest	Maximum Concentration (mg/kg)	Proposed RCRA Action Level (mg/kg) (a)	Ratio of Maximum Concentration to Proposed RCRA Action Level (Hazard Quotient)
4-Methyl-2-pentanone (MIBK)	2.30E-01	6E+03(b)	4E-05
4-Methylphenol	1.00E-01	4E+02(b)	3E-04
Acenaphthene	8.20E-02	5E+03(c)	2E-05
Acetonitrile	6.70E-02	5E+02(c)	1E-04
Aroclor 1254	7.40E-02	2E+00(c)	4E-02
Carbon disulfide	2.90E-03	8E+03(c)	4E-07
Ethylbenzene	3.00E-01	8E+03(c)	4E-05
Fluoranthene	9.30E-02	3E+03(c)	3E-05
Fluorene	6.90E-02	3E+03(c)	2E-05
Phenol	3.60E-01	5E+04(c)	7E-06
Pyrene	8.80E-02	2E+03(c)	4E-05
Styrene	1.40E+00	2E+04(c)	7E-05
Toluene	4.90E-03	2E+04(c)	2E-07
Aluminum	1.11E+04	2E+05(d)	6E-02
Barium	5.05E+03	6E+03 (c)	8E-01
Beryllium	7.00E-01	4E+02(c)	2E-03
Chromium	4.07E+01(e)	8E+04(c,f)	5E-04
		4E+02 (c,g)	1E-01
Cobalt	5.00E+00	5E+03(d)	1E-03
Copper	6.36E+01	3E+03(b)	2E-02
Manganese	2.75E+02	4E+03(c)	7E-02
Nickel	3.92E+02	2E+03(c)	2E-01
Silver	4.80E+00	4E+02(c)	1E-02
Tin	5.60E+01	5E+03(b)	1E-02
Vanadium	3.67E+01	6E+02(b)	6E-02
Zinc	5.90E+01	2E+04(c)	3E-03
Total Hazard Index			1E+00(h)
			1E+00(i)

(a) Proposed RCRA Action Levels were calculated using guidance in 55 FR 30798 (Subpart S, Corrective Action for SWMUs at Hazardous Waste Management Facilities, 27 July 1990) and updated toxicity values from IRIS (EPA 1995) and HEAST (EPA 1994c). Action Levels are based on residential soil ingestion and hazard index of 1.

(b) Calculated from toxicity values provided in HEAST (EPA 1994c).

(c) Calculated from toxicity values provided in IRIS (through October 1995) (EPA 1995b).

(d) Calculated from provisional toxicity values for aluminum and cobalt provided by ECAO (EPA 1994d).

(e) Total chromium (chromium III plus VI).

(f) Calculated using oral RfD for chromium (III).

(g) Calculated using oral RfD for chromium (VI).

(h) Assuming only chromium (III) is present at the site.

(i) Assuming only chromium (VI) is present at the site.

TABLE 6-5
SAMPLING RESULTS FOR HAZARD/RISK DRIVERS IN SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BERYLLIUM			BARIUM		
FIELD ID	RESULT (mg/kg) (1)	WCQ(2)	FIELD ID	RESULT (mg/kg)	WCQ
CAN113-B304-1000	0.7		CAN113-B301-1045	5050	J
CAN113-B319-1025	0.59		CAN113-B330-1020	3470	J
CAN113-B310-1000	0.49		CAN113-B329-1014	1920	J
CAN113-B329-1014	0.49		CAN113-B317-1019	1260	J
CAN113-B330-1014	0.48		CAN113-B329-1020	922	J
CAN113-B320-1016	0.47		CAN113-B317-1035	736	J
CAN113-B328-1000	0.46		CAN113-B312-1034	654	J
CAN113-B322-1000	0.45		CAN113-B323-1024	608	J
CAN113-B325-1000	0.45		CAN113-B310-1034	595	
CAN113-B307-1000	0.44		CAN113-B305-1039	520	
CAN113-B313-1000	0.44		CAN113-B311-1035	512	
CAN113-B302-1020	0.41		CAN113-B305-1029	501	
CAN113-B316-1000	0.38		CAN113-B312-1045	441	J
CAN113-B306-1025	0.37		CAN113-B320-1020	427	
CAN113-B308-1020	0.37		CAN113-B325-1030	386	
CAN113-B317-1019	0.37	J	CAN113-B321-1022	377	J
CAN113-B325-1024	0.35		CAN113-B324-1029	367	
CAN113-B301-1001	0.34		CAN113-B326-1027	342	
CAN113-B302-1014	0.33	J	CAN113-B318-1055	310	J
CAN113-B307-1024	0.33		CAN113-B313-1062	309	J
CAN113-B322-1025	0.33	J	CAN113-B315-1020	304	
CAN113-B309-1018	0.32	J	CAN113-B321-1035	293	
CAN113-B301-1000	0.31		CAN113-B308-1045	285	J
CAN113-B323-1024	0.31	J	CAN113-B325-1000	281	J
CAN113-B327-1021	0.31		CAN113-B328-1000	281	J
CAN113-B329-1020	0.31	J	CAN113-B313-1000	280	J
CAN113-B327-1024	0.3		CAN113-B330-1014	279	J
CAN113-B317-1025	0.29	J	CAN113-B321-1057	277	
CAN113-B322-1018	0.29		CAN113-B308-1020	274	J
CAN113-B328-1025	0.29	J	CAN113-B325-1050	263	
CAN113-B308-1025	0.28		CAN113-B304-1035	258	
CAN113-B320-1020	0.28	J	CAN113-B324-1059	251	
CAN113-B325-1030	0.28	J	CAN113-B312-1027	249	J
CAN113-B304-1020	0.27	J	CAN113-B315-1035	245	
CAN113-B311-1035	0.26	J	CAN113-B309-1045	240	
CAN113-B313-1032	0.26		CAN113-B317-1025	238	J
CAN113-B306-1035	0.25		CAN113-B301-1001	236	J
CAN113-B307-1039	0.25		CAN113-B322-1000	226	J
CAN113-B311-1031	0.25		CAN113-B327-1024	225	

TABLE 6-5
SAMPLING RESULTS FOR HAZARD/RISK DRIVERS IN SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BERYLLIUM			BARIUM		
FIELD ID	RESULT (mg/kg) (1)	WCQ(2)	FIELD ID	RESULT (mg/kg)	WCQ
CAN113-B318-1028	0.25	J	CAN113-B316-1050	213	J
CAN113-B327-1034	0.25		CAN113-B319-1035	207	
CAN113-B307-1029	0.24	J	CAN113-B301-1000	205	J
CAN113-B317-1035	0.24	J	CAN113-B328-1020	201	J
CAN113-B323-1035	0.24	J	CAN113-B305-1024	194	
CAN113-B304-1025	0.23	J	CAN113-B316-1000	194	J
CAN113-B305-1024	0.22	J	CAN113-B323-1019	194	J
CAN113-B313-1040	0.21	J	CAN113-B311-1065	193	
CAN113-B318-1033	0.21	J	CAN113-B326-1021	187	
CAN113-B320-1030	0.21	J	CAN113-B316-1045	184	J
CAN113-B328-1035	0.21	J	CAN113-B302-1014	180	J
CAN113-B312-1055	0.2	J	CAN113-B321-1027	180	
CAN113-B311-1065	0.19	J	CAN113-B306-1020	177	J
CAN113-B316-1050	0.19	J	CAN113-B304-1045	175	
CAN113-B316-1060	0.19	J	CAN113-B328-1025	170	J
CAN113-B325-1040	0.19	J	CAN113-B310-1000	169	J
CAN113-B302-1040	0.18	J	CAN113-B330-1030	168	J
CAN113-B304-1045	0.18	J	CAN113-B303-1023	167	
CAN113-B315-1045	0.18	J	CAN113-B327-1034	164	
CAN113-B325-1050	0.18	J	CAN113-B313-1050	153	J
CAN113-B304-1055	0.17	J	CAN113-B308-1035	147	J
CAN113-B312-1045	0.17	J	CAN113-B324-1050	147	
CAN113-B321-1022	0.17	J	CAN113-B304-1000	146	J
CAN113-B322-1056	0.17	J	CAN113-B319-1000	145	J
CAN113-B307-1049	0.16	J	CAN113-B306-1025	141	J
CAN113-B308-1035	0.16	J	CAN113-B307-1000	138	J
CAN113-B310-1044	0.16	J	CAN113-B322-1025	137	J
CAN113-B313-1050	0.16	J	CAN113-B327-1044	135	
CAN113-B325-1060	0.16	J	CAN113-B304-1025	134	
CAN113-B329-1030	0.16	J	CAN113-B307-1029	134	J
CAN113-B301-1045	0.15	J	CAN113-B311-1031	132	
CAN113-B308-1055	0.15	J	CAN113-B315-1025	131	
CAN113-B316-1045	0.15	J	CAN113-B303-1050	130	
CAN113-B323-1045	0.15	J	CAN113-B316-1070	130	J
CAN113-B323-1054	0.15	J	CAN113-B329-1030	130	J
CAN113-B305-1059	0.14	J	CAN113-B309-1018	128	
CAN113-B306-1045	0.14	J	CAN113-B316-1060	125	J
CAN113-B310-1054	0.14	J	CAN113-B330-1040	125	J
CAN113-B310-1064	0.14	J	CAN113-B309-1035	121	

TABLE 6-5
SAMPLING RESULTS FOR HAZARD/RISK DRIVERS IN SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BERYLLIUM			BARIUM		
FIELD ID	RESULT (mg/kg) (1)	WCQ(2)	FIELD ID	RESULT (mg/kg)	WCQ
CAN113-B316-1070	0.14	J	CAN113-B314-1038	121	J
CAN113-B317-1053	0.14	J	CAN113-B301-1063	119	J
CAN113-B320-1040	0.14	J	CAN113-B322-1018	115	J
CAN113-B320-1052	0.14	J	CAN113-B323-1035	113	J
CAN113-B329-1050	0.14	J	CAN113-B310-1029	110	
CAN113-B301-1063	0.13	J	CAN113-B314-1032	107	J
CAN113-B305-1049	0.13	J	CAN113-B302-1020	106	J
CAN113-B308-1045	0.13	J	CAN113-B318-1045	106	J
CAN113-B313-1062	0.13	J	CAN113-B303-1028	104	
CAN113-B321-1057	0.13	J	CAN113-B318-1028	104	J
CAN113-B324-1040	0.13	J	CAN113-B305-1059	103	
CAN113-B328-1045	0.13	J	CAN113-B324-1024	103	
CAN113-B328-1055	0.13	J	CAN113-B325-1024	103	
CAN113-B301-1055	0.12	J	CAN113-B301-1034	98.7	J
CAN113-B306-1055	0.12	J	CAN113-B308-1025	96.3	J
CAN113-B311-1045	0.12	J	CAN113-B328-1035	95	J
CAN113-B311-1055	0.12	J	CAN113-B326-1047	94.6	
CAN113-B315-1055	0.12	J	CAN113-B322-1035	94.3	J
CAN113-B322-1045	0.12	J	CAN113-B326-1055	93.6	
CAN113-B317-1045	0.11	J	CAN113-B313-1040	93.2	J
CAN113-B306-1020	0.55	U	CAN113-B304-1020	92.4	
CAN113-B328-1020	0.55	U	CAN113-B327-1021	92	
CAN113-B330-1020	0.55	U	CAN113-B321-1045	91.5	
CAN113-B323-1019	0.55	U	CAN113-B329-1040	90.1	J
CAN113-B303-1023	0.5	U	CAN113-B302-1030	88.2	J
CAN113-B304-1035	0.23	U	CAN113-B320-1052	88.1	
CAN113-B314-1038	0.225	U	CAN113-B309-1025	87.8	
CAN113-B314-1032	0.225	U	CAN113-B322-1045	84.2	J
CAN113-B321-1027	0.225	U	CAN113-B301-1055	83.2	J
CAN113-B315-1035	0.22	U	CAN113-B307-1059	82.9	
CAN113-B315-1025	0.22	U	CAN113-B310-1054	81	
CAN113-B315-1020	0.22	U	CAN113-B307-1039	75.2	J
CAN113-B302-1030	0.22	U	CAN113-B307-1049	75.1	J
CAN113-B301-1034	0.22	U	CAN113-B301-1028	74	J
CAN113-B301-1028	0.22	U	CAN113-B319-1053	72.9	
CAN113-B305-1029	0.22	U	CAN113-B313-1027	72	J
CAN113-B310-1029	0.22	U	CAN113-B310-1064	70.3	
CAN113-B324-1024	0.22	U	CAN113-B320-1016	69.4	
CAN113-B329-1040	0.22	U	CAN113-B302-1040	68.9	J

TABLE 6-5
SAMPLING RESULTS FOR HAZARD/RISK DRIVERS IN SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BERYLLIUM			BARIUM		
FIELD ID	RESULT (mg/kg) (1)	WCQ(2)	FIELD ID	RESULT (mg/kg)	WCQ
CAN113-B326-1027	0.22	U	CAN113-B311-1045	66.4	
CAN113-B326-1021	0.22	U	CAN113-B320-1040	64.3	J
CAN113-B330-0568	0.22	U	CAN113-B319-1018	61.3	
CAN113-B321-1035	0.22	U	CAN113-B318-1033	60.8	J
CAN113-B305-1039	0.215	U	CAN113-B310-1044	59.5	
CAN113-B324-1029	0.215	U	CAN113-B314-1067	59.4	J
CAN113-B312-1034	0.215	U	CAN113-B317-1045	59.1	J
CAN113-B312-1027	0.215	U	CAN113-B306-1055	58.8	J
CAN113-B309-1035	0.215	U	CAN113-B306-1045	58.4	J
CAN113-B309-1025	0.215	U	CAN113-B325-1040	56.3	
CAN113-B309-0564	0.215	U	CAN113-B324-1040	56.2	
CAN113-B303-1028	0.21	U	CAN113-B312-1065	56.1	
CAN113-B310-1034	0.21	U	CAN113-B314-1057	55.9	J
CAN113-B322-1035	0.21	U	CAN113-B319-1025	54.2	
CAN113-B319-1000	0.195	U	CAN113-B315-1045	51.3	
CAN113-B319-1018	0.115	U	CAN113-B329-1050	50.9	
CAN113-B313-1027	0.11	U	CAN113-B320-1030	50.7	J
CAN113-B314-1057	0.11	U	CAN113-B328-1045	49.7	J
CAN113-B324-1059	0.11	U	CAN113-B304-1055	48.2	
CAN113-B326-1037	0.11	U	CAN113-B309-1053	48.2	
CAN113-B326-1047	0.11	U	CAN113-B311-1055	48.1	
CAN113-B330-1030	0.11	U	CAN113-B305-1049	47.5	
CAN113-B302-1050	0.105	U	CAN113-B323-1054	47.1	
CAN113-B303-1058	0.105	U	CAN113-B303-1040	45.4	
CAN113-B303-1050	0.105	U	CAN113-B326-1037	43.9	
CAN113-B303-1040	0.105	U	CAN113-B315-1055	43.2	
CAN113-B319-1053	0.105	U	CAN113-B307-1024	42.1	J
CAN113-B316-1080	0.105	U	CAN113-B325-1060	42.1	
CAN113-B319-1035	0.105	U	CAN113-B323-1045	41.1	J
CAN113-B319-1045	0.105	U	CAN113-B308-1055	38.2	
CAN113-B318-1055	0.105	U	CAN113-B319-1045	37.5	
CAN113-B318-1063	0.105	U	CAN113-B318-1063	37.2	
CAN113-B318-1045	0.105	U	CAN113-B316-1080	36.9	
CAN113-B314-1067	0.105	U	CAN113-B314-1045	35.2	J
CAN113-B314-1045	0.105	U	CAN113-B322-1056	32.7	
CAN113-B324-1050	0.105	U	CAN113-B327-1057	31	
CAN113-B312-1065	0.105	U	CAN113-B328-1055	30.6	
CAN113-B309-1053	0.105	U	CAN113-B312-1055	28.4	J
CAN113-B307-1059	0.105	U	CAN113-B330-1050	26.8	

TABLE 6-5
SAMPLING RESULTS FOR HAZARD/RISK DRIVERS IN SOIL
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

BERYLLIUM			BARIUM		
FIELD ID	RESULT (mg/kg) (1)	WCQ(2)	FIELD ID	RESULT (mg/kg)	WCQ
CAN113-B309-1045	0.105	U	CAN113-B303-1058	25.3	
CAN113-B326-1055	0.105	U	CAN113-B317-1053	22.9	J
CAN113-B327-1044	0.105	U	CAN113-B302-1050	22.4	J
CAN113-B327-1057	0.105	U	CAN113-B313-1032	20.6	J
CAN113-B330-1040	0.105	U	CAN113-B306-1035	15.8	J
CAN113-B321-1045	0.105	U			
CAN113-B330-1050	0.105	U			
Number of samples	163		Number of samples	161	
Arithmetic mean (mg/kg)	0.221		Arithmetic mean (mg/kg)	227	
Maximum detected value (mg/kg)	0.700		Maximum detected value (mg/kg)	5050	
95% UCL of the arithmetic mean (mg/kg)	0.236		95% UCL of the arithmetic mean (mg/kg)	293	

(1) WCQ = Woodward-Clyde analytical data qualifiers; "J" indicates that the quantity of the analyzed chemical was estimated. "U" indicates that the analyzed chemical was not detected.

(2) Sample concentration of analyte. For samples in which the analyte was nondetect (U-qualified results), sample concentration shown is one-half of the sample quantitation limit (SQL).

TABLE 6-6
TENTATIVELY IDENTIFIED COMPOUNDS (TICs)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Tentatively Identified Compound (TIC)	Number of Detections (out of 160 samples)	Maximum Concentration (mg/kg)
.alpha.-Amyrin	1	1.4E-01
1,1'-Biphenyl, 4,4'-difluoro-	1	2.8E-01
1-Hexanol, 2-ethyl-	1	3.4E-01
1-Methylnaphthalene	1	7.6E-02
1-Nonadecanol	1	2.0E-01
1-Octadecanol	1	2.4E-01
1-Pentene, 4,4-dimethyl-	1	6.70E-03
14-Pentadecenoic acid	1	9.1E-01
2-Butene	1	8.60E-03
2-Hepten-1-ol	3	1.2E-02
2-Methylheptanoic acid	1	3.6E-01
3-Cyclohexene-1-methanol, .alpha.,.alpha.4-	1	1.9E-01
3-Penten-2-one, 4-methyl-	1	1.8E-01
a'-Neogammacer-22(29)-en-3-ol,(3.beta.,21.	1	1.8E-01
.alpha.-Pinene	1	1.40E-01
Benzene, 2-butenyl-	1	5.7E-01
Bicyclo[2.2.1]heptan-2-one,1,3,3-trimethyl-	1	1.1E-02
Butanoic acid	4	3.7E+00
Butanoic acid, 2-methyl-	2	7.0E-01
Camphor	1	5.3E-03
Cyclohexane, methyl-	6	1.8E-01
Cyclopentanecarboxylic acid, 2-amino-, tran	1	2.0E-01
Eicosanoic acid, 2,3-bis (acetyloxy)propyl e	1	3.4E-01
Acetic acid, ethyl ester	10	1.1E-01
Hexadecanoic acid	2	1.0E+00
Hexanedioic acid, bis(2-ethylhexyl)ester	4	9.8E-01
Hexanedioic acid, dioctyl ester	1	1.0E+00
Hexanoic acid	4	4.9E+00
Hexanoic acid, 2-ethyl-	2	4.0E-01
Hexanoic acid, 2-methyl-	2	2.6E+00
Isomer of Neogammacer-en-ol	2	1.0E+00
Nitrogen compound	1	1.4E-01
Nonanal	2	1.00E-02
Nonanedioic acid, bis(2-ethylhexyl) ester	1	2.1E-01
Octadecanoic acid, 2-methylpropyl ester	1	4.3E-01
Octadecanoic acid, butyl ester	1	2.0E-01
Octanoic acid	2	1.1E+00
Oleic Acid	1	1.7E+00

TABLE 6-6
TENTATIVELY IDENTIFIED COMPOUNDS (TICs)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Tentatively Identified Compound (TIC)	Number of Detections (out of 160 samples)	Maximum Concentration (mg/kg)
Oxygenated Hydrocarbon	11	5.7E-01
Pentanoic acid	3	4.2E+00
Pentanoic acid, 2-methyl-	2	2.2E+00
Phenol, 4,4'-butylidenebis[2-(1,1-dimethylet	1	2.4E-01
Polynuclear Aromatic Hydrocarbon	1	1.9E-01
Primary amide	1	1.9E-01
Propanoic acid	3	3.0E+00
Propanoic acid, 2-methyl-	3	1.3E+00
Saturated Hydrocarbon: <C10	1	9.4E-03
Saturated Hydrocarbon: >C20	12	8.3E-01
Saturated Hydrocarbon: C10-C20	7	3.2E+00
Stigmast-5-en-3-ol-, (3.beta.,24S)-	5	3.5E-01
Sulfur, mol. (S8)	2	7.5E-01
Unsaturated Hydrocarbon	4	1.7E-01

TABLE 6-7
CATEGORIES OF TENTATIVELY IDENTIFIED COMPOUNDS (TICs)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

TICs Considered to Be Relatively Nontoxic Based on Professional Judgment

I. Fatty acids and Fatty Acid Esters

Octadecanoic acid, 2-methylpropyl ester
Hexanedioic acid, bis(2-ethylhexyl)ester
14-Pentadecenoic acid
2-Methylheptanoic acid
Butanoic acid
Butanoic acid, 2-methyl-
Hexadecanoic acid
Hexanedioic acid, dioctyl ester
Hexanoic acid
Hexanoic acid, 2-ethyl-
Hexanoic acid, 2-methyl-
Nonanedioic acid, bis(2-ethylhexyl) ester
Octadecanoic acid, butyl ester
Octanoic acid
Oleic Acid
Pentanoic acid
Pentanoic acid, 2-methyl-
Propanoic acid
Propanoic acid, 2-methyl-

II. Alcohols

1-Nonadecanol
1-Octadecanol
1-Hexanol, 2-ethyl-
2-Hepten-1-ol
Isomer of Neogammacer-en-ol

III. Ketones

3-Penten-2-one, 4-methyl-
Camphor

TICs with Unknown Toxicity

Phenol, 4,4'-butylidenebis[2-(1,1-dimethylethyl)!
Bicyclo[2.2.1]heptan-2-one,1,3,3-trimethyl-
3-Cyclohexene-1-methanol, .alpha.,.alpha.4-trim!
Eicosanoic acid, 2,3-bis (acetyloxy)propyl ester
Cyclopentanecarboxylic acid, 2-amino-, trans-
a'-Neogammacer-22(29)-en-3-ol,(3.beta.,21.beta.)-
Stigmast-5-en-3-ol-, (3.beta.,24S)-
1,1'-Biphenyl, 4,4'-difluoro-
1-Pentene, 4,4-dimethyl-
Benzene, 2-butenyl-
1-Methylnaphthalene
Cyclohexane, methyl-
.alpha.-Amyrin
Sulfur, mol. (S8)
Nonanal
2-Butene
.alpha.-Pinene

TICs Whose Specific Chemical Form is Unknown

Nitrogen compound
Oxygenated Hydrocarbon
Primary amide
Unsaturated Hydrocarbon
Polynuclear Aromatic Hydrocarbon

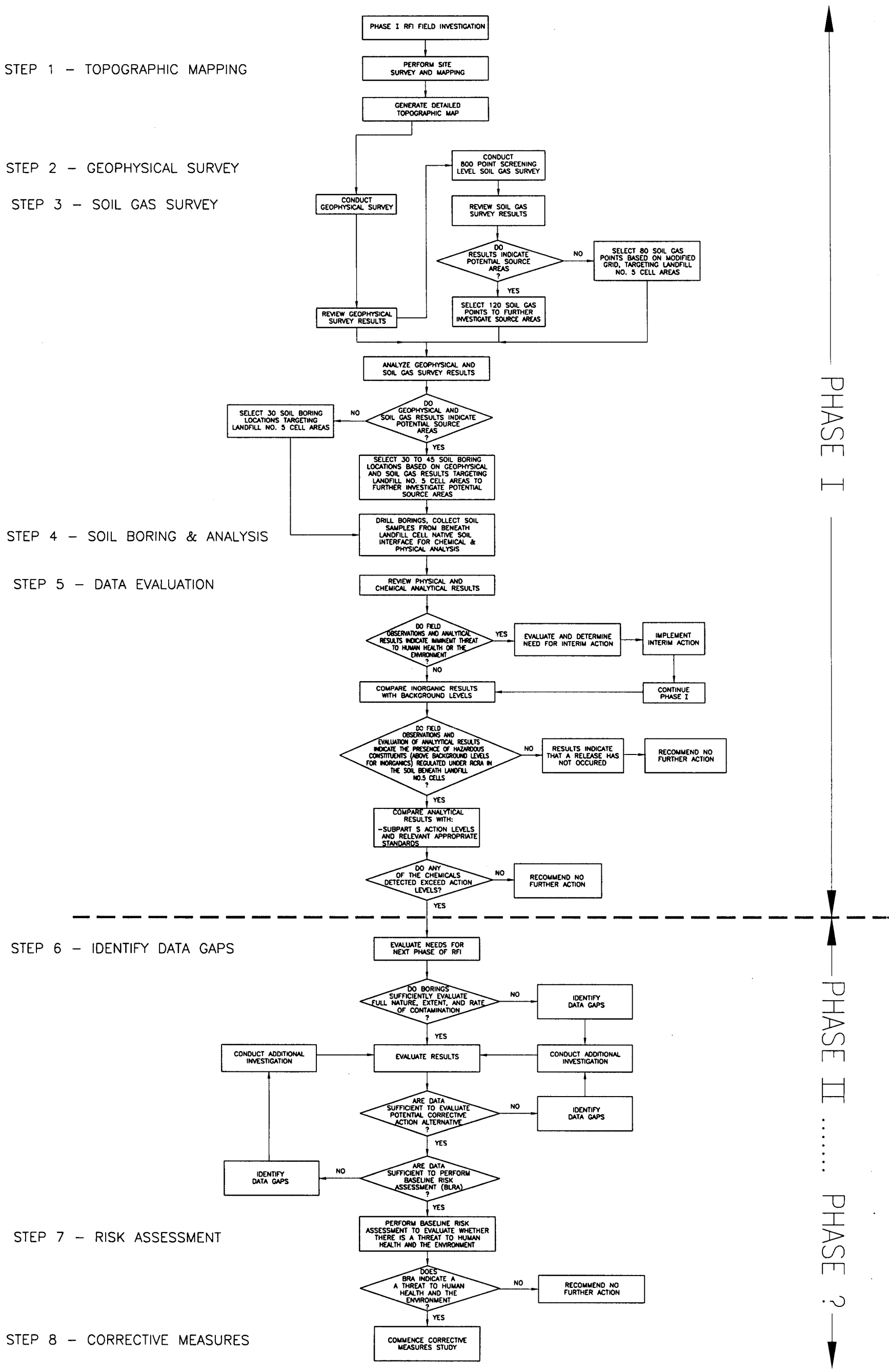
TICs Related to Petroleum Products

Saturated Hydrocarbon: <C10
Saturated Hydrocarbon: >C20
Saturated Hydrocarbon: C10-C20

TICs With EPA-Approved Toxicity Values

Acetic acid, ethyl ester
Acetic acid, methyl ester

PHASE I RFI OBJECTIVE: EVALUATE THE PRESENCE OR ABSENCE OF A RELEASE TO THE ENVIRONMENT FROM LANDFILL NO. 5



Job No. : C3MIIM	DECISION DIAGRAM FOR LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5) CANNON AIR FORCE BASE
Prepared by : J.T.A.	
Date : 8/5/94	

M11001

FIG. 6-1

7.0
RELEVANT AND APPROPRIATE STANDARDS

Both RCRA and CERCLA requirements for evaluating the nature and extent of hazardous wastes potentially occurring at Landfill No. 5 will be addressed in investigations at Cannon AFB. Through discussions with the New Mexico Department of Environmental Protection, RASs would be the basis for meeting the regulatory permit requirements under RCRA.

Cannon AFB must evaluate the SWMUs identified by the USEPA during the RFA as a condition of their RCRA Part B permit. The Phase I RFI was designed to satisfy the RFI guidance for characterizing the SWMUs and developing and implementing corrective action measures, if necessary.

As part of future CERCLA FS, CMS under RCRA, alternative remedial or corrective action measures may be evaluated to assess the degree to which they attain or exceed relevant federal and state public health and environmental standards. A preliminary identification and discussion of RASs applicable to the RFI at Cannon AFB is presented below. Review of these RASs will highlight any site-specific regulatory conditions that might either limit the choice of alternatives or which place limits on contaminant concentrations at the site.

Cannon AFB is also conducting this investigation under the Air Force's IRP. The IRP requires that the investigation follow the regulatory requirements of CERCLA which is the basis for assessment and response actions on USAF installations under its provisions. Additionally, the Superfund Authorization and Responsibility Act (SARA) augmented the scope and requirements of CERCLA and gave specific directives to federal facilities regarding investigation of waste disposal sites. Under SARA, determination of applicable or relevant and appropriate requirements (ARARs), which in this section is synonymous with RASs, is required.

The RASs presented in this section are chemical-specific and location-specific. Identification of action-specific RASs can only be addressed once detailed remedial alternatives are developed.

7.1 DEFINITION OF RASs

Remedial actions must attain a general standard of cleanup that assures protection of human health and the environment, is cost-effective, and uses permanent solutions and alternative treatment technologies or resource recovery technologies to the maximum extent practicable. In addition, SARA requires that any hazardous substance or pollutant remaining on site meet levels or specific standards which have been established under federal environmental law, or state environmental statutes which are more stringent than federal.

A requirement may be either applicable or relevant and appropriate to remedial activities at a site, but not necessarily both. Applicable requirements are those cleanup standards, standards of control, and other substantive environmental protection requirements, criteria, or limitations promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, remedial action, location, or other circumstances at a site.

If a regulation is not applicable, it may still be relevant and appropriate. The basic considerations are whether the requirement (1) regulates or addresses problems or situations sufficiently similar to those encountered at the subject site (i.e., relevant), and (2) is appropriate to the circumstances of the release or threatened release, such that its use is well suited to the particular site. Determining whether a requirement is relevant and appropriate is site-specific and must be based on best professional judgment. The judgment is based on a number of factors, including the characteristics of the remedial action, the hazardous substances present on site, and the physical circumstances of the site and of the release, as compared to the statutory or regulatory requirement. Compliance with all requirements found to be applicable or relevant and appropriate is mandatory under SARA unless a waiver is obtained from the EPA.

"To be considered" guidance materials (TBCs) are nonpromulgated advisories, proposed rules, criteria, or guidance documents issued by federal or state governments that do not have the status of potential RASs. However, these advisories and guidance documents should be considered when determining protective cleanup levels where no RAS exists, or where RASs are not sufficiently protective of human health and the environment. In these circumstances, TBC values are used to establish cleanup targets.

7.2 CHEMICAL-SPECIFIC RASs

A summary of federal and state regulations, standards, and guidance is presented in Tables 7-1 and 7-2. The chemical-specific RASs are included in Table 7-1. The location-specific RASs are included in Table 7-2 and discussed in Section 7.4. This information is based on standards, guidelines, and criteria found in relevant literature, discussions with appropriate state regulatory agency personnel, and past project experience.

Chemical-specific requirements are based on health or risk-based concentration limits of discharge limitations in environmental media (i.e., water, soil) for specific hazardous chemicals. These requirements may be used to set cleanup levels for the chemicals of concern in the designated media, or to set a safe level of discharge where a discharge occurs as part of the remedial activity.

Sources for potential target cleanup levels included selected standards, criteria, and guidelines that are typically considered as RASs for remedial actions conducted under CERCLA, as well as some guidance and proposed action levels developed under RCRA that should be regarded as TBCs. In addition, New Mexico has developed cleanup levels for underground storage tank-related remediation, as well as standards for groundwater.

For groundwater, maximum contamination levels (MCLs) or non-zero maximum contaminant goals (MCGLs) established under the Safe Drinking Water Act (SDWA) are often accepted by regulatory agencies as cleanup levels for groundwater remedial activities, especially if the groundwater is or could be a drinking water source. Also included are hazardous constituent concentration limits under RCRA Subpart F, which are applicable to releases from RCRA-regulated units. Secondary maximum contamination levels (SMCLs) established under SDWA are also presented in Table 7-3 although they are not federally enforceable and should be regarded as TBCs. If no values are shown for possible contaminants in Table 7-3, there are currently no standards for that contaminant. Under this Phase I investigation, groundwater was not sampled; therefore, no comparative study was conducted; however, the MCLs and MCGLs were updated as appropriate according to standards passed in June, 1995.

State and federal standards and criteria for surface water quality are not considered applicable or relevant and appropriate as long as there is no possibility of remedial activities impacting surface water bodies. However, should any remediation of the landfill involve discharge of contaminated groundwater to a surface water body, both the state and federal surface water quality standards and criteria would need to be complied with.

7.3 TBCs

In general, very few cleanup standards exist for soil contamination. Often cleanup levels are based on guidance developed from Underground Storage Tank (UST) investigations or, if non-petroleum wastes are involved, levels are based on site-specific risk assessment, hazardous waste definition, or background levels. However, some human health-based criteria for soil and water contaminant levels have been published, including the RFI Guidance and proposed RCRA-related action levels. Although, these criteria were developed specifically for application in RCRA-related activities, it appears they are being used as proposed RASs, where no other standards exist. These proposed RCRA-related action levels and guidelines are presented, therefore, as TBCs rather than as chemical-specific RASs and represent "potential" cleanup levels only. Actual cleanup levels that may be applied to a particular area will depend on site-specific conditions and are subject to final approval by the appropriate regulatory agency or agencies. The RCRA levels are presented and used for the purposes of this RASs evaluation because there are no other sources of standards or guidance for contaminated soil cleanup levels.

7.4 LOCATION-SPECIFIC RASs

Although the universe of location-specific RASs is identified in Table 7-2, only those regulations that are deemed RASs for the Cannon site are discussed below. Potential location-specific RASs for Cannon AFB are presented in Table 7-2 with an explanation as to whether the regulation is relevant and appropriate and why. Location-specific RASs are restrictions placed on the types of activities that may occur in particular locations. The location of a site may be an important characteristic in determining its impact on human health and the environment; thus, individual states may establish location-specific RASs. These RASs may restrict or preclude certain remedial actions or may apply only to certain

portions of a site. Examples of location-specific RASs include federal and state requirements for preservation of historic landmarks, endangered species and wetlands protection, and the restrictions on management of hazardous waste in floodplain areas.

Due to the possible presence of both federal and state listed threatened/endangered species at the site, the federal and state Endangered Species Act are both considered potentially relevant and appropriate. If threatened and endangered species are found at the site, these acts would be relevant and appropriate.

Section 106 of the National Historic Preservation Act is also considered "potentially" relevant and appropriate due to a federal agency having authority over any actions that could impact historically significant objects, buildings, or structures at the site. Although no buildings, objects, or structures at Cannon AFB have been placed on the register, the evaluation process is still ongoing at the base. Due to both architectural and archaeological surveys being conducted on-site, the State Cultural Properties Act is also considered "potentially" relevant and appropriate, and negotiations with the State Historic Preservation Office should be renewed prior to any remedial activity.

While there is uncertainty concerning the future definition of wetlands, it is the opinion of the U.S. Fish and Wildlife Service that the playas at the base fall under the current definition of wetland areas under federal wetland delineation guidance (Hagenbuck 1991). The federal regulations governing wetlands, however, are not considered RASs as long as the project does not impact the wetlands areas. If the playa lakes on base continue to be considered wetlands and if the remedial activities should impact these wetland areas, then the regulations would be considered relevant and appropriate and coordination with the U.S. Fish and Wildlife Service would need to be initiated prior to any remedial activity. The State of New Mexico does not have its own wetlands regulations at this time.

7.5 COMPARISON OF LABORATORY RESULTS TO TBCs

The laboratory analytical values presented as "detected" and "estimated" for chemicals at Landfill No. 5 were compared to the applicable chemical-specific TBCs for soil presented in Tables 7-4 and 7-5 to determine which, if any, results exceeded the listed guidelines.

All detected compounds (exclusive of TICs) were evaluated for this report and compared with the TBCs for soil. Background levels for three metals exceeded the action levels for soil. These include arsenic, beryllium, and thallium. In addition, no RCRA action levels or RFI criteria levels are available for the nonorganics comparison of values for calcium, lead, sodium, iron, potassium, or magnesium in soil. However, each of these is discussed under Section 4.3 and therefore are not analyzed under this section. RCRA action levels and RFI criteria are also not available for the following organic chemicals: Benzo(g,h,i)perylene, dibenzofuran, phenanthrene, 2-methyl naphthalene, and 4-nitrophenol.

Soil sample results were compared against the TBCs for the RFI criteria and proposed RCRA action levels. These levels are not cleanup standards, but are considered screening levels used to assess whether a health risk evaluation is warranted. Only the metals discussed below exceeded RCRA action levels and/or RFI Guidance.

Arsenic

Levels of arsenic in soil samples exceeded the proposed RCRA action level, which is 0.4 mg/kg. Laboratory results indicated arsenic in quantities as high as 5.8 mg/kg. However, the background level of arsenic at Cannon AFB is 10.5 mg/kg; therefore, arsenic should not be considered an additional contaminant at Landfill No. 5.

Barium

One soil sample showed exceedances of barium above the RFI Guidance, which is 4,000 mg/kg, but below the RCRA proposed action level, which is 6,000 mg/kg.

The RFI Guidance human health-based criteria for barium in soil of 4,000 mg/kg was derived using an RfD of 0.07 mg/kg-day (EPA 1989). In August 1990, the RfD for barium was changed from 0.07 to 0.05 mg/kg-day, based on new toxicological data. When the current RfD is used with methodology from the 1989 RFI Guidance, the calculated human health-based criteria for barium in soil is 5,600 mg/kg. The maximum concentration of barium detected at Landfill No. 5 (5,050 mg/kg) is lower than this updated criteria.

Beryllium

The RFI Guidance TBC recommends a soil cleanup of 0.14, while the proposed RCRA action level recommends 0.2 mg/kg. Forty-one samples collected and analyzed during the Phase I RFI exceeded the RCRA action level of 0.2 mg/kg, and an additional thirty three exceeded 0.14 mg/kg. The background range for beryllium at Cannon AFB is 0 to 0.6 mg/kg. Only one soil sample exhibited an exceedance greater than this level, and this sample was 0.7 mg/kg. It seems, therefore, that for the most part, exceedances are likely caused from naturally occurring levels of beryllium.

TABLE 7-1

SUMMARY OF POTENTIAL CHEMICAL-SPECIFIC RASs/TBCs
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Standard, Requirement, or Criteria	Description	Comment
FEDERAL		
Safe Drinking Water Act (40 USC Sect. 300)		
National Primary Drinking Water Standards [40 CFR Parts 141, 142, (1995)	Establishes maximum contaminant levels (MCLs) for specific contaminants that are health-based standards for public drinking water systems.	MCLs are applicable for drinking water at the tap. MCLs are relevant and appropriate for organic and inorganic contamination of groundwater that is or may be used for drinking.
National Secondary Drinking Water Standards (40 CFR Part 143) (1994)	Establishes secondary maximum contaminant levels (SMCLs) that are nonenforceable guidelines for public drinking water systems to protect the aesthetic quality of the water.	SMCLs may be "to be considered" if groundwater is used as a drinking water source.
Maximum Contaminants Level Goals (MCLGs) [PL No. 99-339, 100 Stat. 642 (1986), (1995); 40 CFR 141,142]	Establishes drinking water quality goals at a level at which no adverse health effects may occur with an adequate margin of safety.	MCLGs set above zero levels are relevant and appropriate for existing or potential sources of drinking water. MCLGs may be relevant and appropriate if the risk posed by multiple contaminants or pathways is in excess of 10^{-4}.
Resource, Conservation, and Recovery Act (RCRA)		
Releases from Solid Waste Management Units (40 CFR Part 264)	Subpart F (264.94) gives concentration limits in groundwater for hazardous constituents from a regulated unit.	Applicable if organic and inorganic contamination of groundwater is found at a RCRA regulated unit.
RCRA Facility Investigation Guidance (EPA 1989a)	Guidance levels for cleanup of contaminated soils based on EPA-derived chronic exposure assumptions; intended as screening levels at RCRA facilities to determine if a more detailed health-risk evaluation is warranted.	To be considered if contaminated soils are found.

TABLE 7-1

SUMMARY OF
POTENTIAL CHEMICAL-SPECIFIC RASs/ TBCs
Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Standard, Requirement, or Criteria	Description	Comment
Proposed RCRA Action Levels (55 FR 30798, 27 July 1990)	Risk-based action levels for contaminants in soil which, if exceeded, would trigger the need for a Corrective Measures Study.	To be considered if contaminated soils are found.
STATE		
New Mexico Water Quality Act, 1978		
New Mexico Drinking Water Regulations (4/16/91)(New Mexico Water Supply Regulations, Sections 202 to 203)	Establishes MCLs and standards for sources of drinking water.	State MCLs are applicable or relevant and appropriate to contaminated water if the state MCL is more stringent than federal requirements.
New Mexico Water Quality Regulations, amended through August 17, 1991 (WQCCR Part 3, Sections 100 through 103)	Establishes human health, domestic water supply, and irrigation use standards for ground water protection.	Applicable if remedial activities include discharges onto or below the surface of the ground.
New Mexico Water Quality Regulations, amended through August, 1991 (WQCCR Part 1, Section 101.UU)	Establishes definition of toxic pollutant based on effects to human health and the environment. Requires a determination of health and environmental risk due to the presence of the contaminant.	Applicable if groundwater related to the source area contains any of the contaminants listed in the definition of toxic pollutants.
New Mexico Hazardous Waste Act 1978		
New Mexico Underground Storage Tank Regulations, amended through July 18, 1991, Section 1209	Sets cleanup levels for soils contaminated with benzene, aromatic hydrocarbons, or petroleum products.	May be "to be considered" if soils are contaminated with benzene, aromatic hydrocarbons, or petroleum products.

TABLE 7-1

SUMMARY OF
POTENTIAL CHEMICAL-SPECIFIC RASs/ TBCs
Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Standard, Requirement, or Criteria	Description	Comment
New Mexico Solid Waste Regulations		
New Mexico Special Waste Requirements Regulations, adopted effective January 30, 1992, Part VII	Sets disposal levels for soils contaminated with BTEX compounds and total petroleum hydrocarbons. Also sets disposal standards for asbestos waste.	May be "to be considered" if soils are contaminated with petroleum hydrocarbons. Asbestos requirements may be applicable if asbestos waste continues to be disposed in Landfill 5 or is removed and placed elsewhere.

TABLE 7-2

SUMMARY OF POTENTIAL LOCATION-SPECIFIC RASs
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Requirement	Potentially Applicable?	Potentially Relevant and Appropriate?	Comments
Resource Conservation and Recovery Act (RCRA)			
1. New facilities where treatment, storage or disposal of hazardous waste will be conducted is prohibited within 61 meters (200 feet) of a fault displaced in Holocene time [40 CFR 264.18(a)]*	No	No	Treatment, storage, and disposal of waste will not be conducted within 61 meters of a fault displaced in Holocene time.
2. New facilities where treatment, storage or disposal of hazardous waste will be conducted is prohibited within the 100-year floodplain. [40 CFR 264.18(b)]*	No	No	Treatment, storage, and disposal of waste will not be conducted within the 100-year floodplain of adjacent rivers.
3. Prohibits noncontainerized or bulk liquid hazardous waste placement in salt domes, salt bed formations, and underground mines or caves. [40 CFR 264.18(c)]*	No	No	No action that would place waste in a salt dome or salt bed formation, underground mine, or cave is anticipated at this site.
E.O. 11988 Protection of Floodplains			
4. Limits activities in floodplain. Floodplain is defined as "the lowland and relatively flat areas adjoining inland and coastal waters including flood prone areas of off-shore islands, including at a minimum, that area subject to a one percent or greater chance of flooding in any given year." [40 CFR 6, Appendix A and 40 CRF 6.302]	No	No	Remedial activities will not be conducted within any floodplains.

*Adopted by the State of New Mexico and incorporated within Part V of the New Mexico Hazardous Waste Management Regulations.

TABLE 7-2
SUMMARY OF POTENTIAL LOCATION-SPECIFIC RASs
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Requirement	Potentially Applicable?	Potentially Relevant and Appropriate?	Comments
E.O. 11990 Protection of Wetlands			
5. Minimizes impacts on areas designated as wetlands. [40 CRF 6, Appendix A]	No	No	Although playas are considered wetlands by the U.S. Fish and Wildlife Service, regulations are applicable only if the remedial activities impact the wetland areas. No impacts to the wetland areas are anticipated at this time.
Clean Water Act Section 404			
6. Action to prohibit discharge of dredged or fill material into waters of U.S. without permit. [33 USC 1251; 40 CFR 230; 33 CFR 320-330]	No	No	Dredge and fill permit requirements will not apply because no waters of the U.S. will be impacted by remedial activities on the site.
7. Requires Federal agencies to avoid, to the extent possible, adverse impacts associated with destruction or loss of wetlands	No	No	As described above, although wetlands are considered by the U.S. Fish and Wildlife Service to occur on the base in the form of playas, regulations are applicable only if the remedial activities impact the wetland area.
Endangered Species Act			
8. Protects endangered species and threatened species and preserves their habitat. [16 USC 1531 et seq.; 50 CFR 200, 50 CFR 402]	Yes	---	Although Walk, Haydel & Associates report in their Remedial Investigation that there are no critical habitats in the immediate vicinity of the site (according to the Wildlife Management Plan for the base), two federally listed endangered species are known to inhabit the area within a 50-mile radius of the site (Lee Wan & Associates, Inc. 1990).

TABLE 7-2
SUMMARY OF POTENTIAL LOCATION-SPECIFIC RASs
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Requirement	Potentially Applicable?	Potentially Relevant and Appropriate?	Comments
Bald Eagle Protection Act			
9. Protects all eagle species and restricts activities that may threaten or adversely affect their habitat (16 USC Section 688 et seq.)	Yes	---	If eagle species are found to occur on the base, special protection provisions will need to be coordinated with US Fish and Wildlife Service. Bald eagles are known to inhabit the area within a 50-mile radius of the site (Lee Wan & Associates, Inc., 1990).
Migratory Bird Treaty Act			
10. Protects migratory, resident, or range habitat of migratory birds including raptors and waterfowl. (16 USC Section 703 et seq.).	Yes	--	Remedial actions cannot threaten or adversely affect the habitats of migratory waterfowl or raptors.
Wilderness Act			
11. Limits activities within an area designed as a wilderness area. [16 USC 1311 et seq.; 50CFR 53.1 et seq.]	No	No	The site is not within a federally owned area designated as a wilderness area.
12. Limits the type of activities permitted in an area designated as a National Wildlife Refuge system [16 USC 668 et seq.; 50 CFR Part 27]	No	No	The site is not in an area designated as part of the National Wildlife Refuge System. (The closest NWRS are over 25 miles from the site.)
Fish and Wildlife Coordination Act			
13. Prohibits activities affecting/modifying streams or bodies of water if the activity has a negative impact on fish or wildlife. [16 USC 661 et seq.; 33 CFR Parts 320-330; 40 CFR 6.302]	No	No	As described above, no streams, rivers, or playas will be impacted by remedial activities.

TABLE 7-2
SUMMARY OF POTENTIAL LOCATION-SPECIFIC RASs
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Requirement	Potentially Applicable?	Potentially Relevant and Appropriate?	Comments
Wild and Scenic Rivers Act			
14. Protects rivers that are designated as wild, scenic, or recreational. [16 USC 1271; 40 CFR 6.302(e)]	No	No	No rivers designated as wild, scenic or recreational will be affected by remedial activities.
National Historic Preservation Act (NHPA)			
15. Requires the preservation of historic properties included in or eligible for the National Register of Historic Places and to minimize harm to National Historic Landmarks. [16 USC 470 et seq.; 7 CFR 650; 36 CFR Part 65, Part 800]	Yes	---	Pursuant to Section 106 of NHPA, proposed federal undertaking in any state shall take into consideration the effect of the undertaking on any site, building, structure, or object that is included or eligible for inclusion in the National Register; nothing has been placed on the register to date, but surveys are ongoing. Also applicable if historical sites are discovered during a remedial action or if known historical sites exist near a remedial action site.
The Historic and Archaeological Data Preservation Act of 1974			
16. Establishes procedures to provide for preservation of historical and archaeological data which might be destroyed through alteration of terrain as a result of a federal construction project or a federally licensed activity program (16 USC 469, 40 CFR 6.301(c))	Yes	---	May be available if remedial activities affect historical and/or undiscovered archaeological data of the site.
The Archaeological Resource Protection Act of 1979			
17. Requires a permit for any excavation or removal of archaeological resources from public or Indian lands (16 USC 470aa-47011)	Yes	---	May be applicable if any remedial activity involves removal of archaeological resources; substantive requirements need to be met.

TABLE 7-2
SUMMARY OF POTENTIAL LOCATION-SPECIFIC RASs
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Requirement	Potentially Applicable?	Potentially Relevant and Appropriate?	Comments
Coastal Zone Management Act			
18. Limits activities affecting the coastal zone, including lands thereunder and adjacent shorelands. [16 USC Section 1451 et seq.]	No	No	The site is not located in the coastal zone management area.
State Regulations			
Endangered Species Act (New Mexico Regulation 682)			
19. Requires coordination with the Department of Game and Fish if activities impact on endangered/ threatened species or their habitat.	Yes	---	As stated above, although Walk, Haydel & Associates report in their Remedial Investigation that there are no significant habitats in the immediate vicinity of the site, state listed threatened/endangered species have been identified at or near the base.
1978 New Mexico State Cultural Properties Act (Sections 18-6-1 through 18-6-17 NMSA 1978)			
20. Provides for the preservation, protection, and enhancement of structures, sites, and objects of historical significance within the State.	Yes	--	Although the Cannon AFB site including its properties/buildings are not listed on the State Register of Historic Places, coordination with the State Historic Preservation Office is ongoing with respect to the historical and archaeological surveys that have been conducted at the base; State laws closely follow the federal laws.

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs
GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
pH	Field Parameter	6.5-8.5*					6.0-9.0	6.0-9.0
Total Dissolved Solids	Indicator	500,000 µg/L*					1,000,000 µg/L	1,000,000 µg/L
Carbonate	Anion							
Chloride	Anion	250,000 µg/L*					250,000 µg/L	250,000 µg/L
Fluoride	Anion	4,000 µg/L, 2,000 µg/L*	4,000 µg/L		4,000 µg/L	1,600 µg/L		1,600 µg/L
N as Nitrate	Anion	10,000 µg/L	10,000 µg/L(c)		10,000 µg/L	10,000 µg/L		10,000 µg/L
N as Nitrate+Nitrite	Anion	10,000 µg/L(c)	10,000 µg/L(c)					
N as Nitrite	Anion	1,000 µg/L(c)	1,000 µg/L(c)					
Potassium	Anion							
Sulfate	Anion	250,000 µg/L*					600,000 µg/L	600,000 µg/L
Aluminum	Metal	0.5 to 200 µg/L*(c)						5,000 µg/L
Antimony	Metal	6 µg/L(d)	6 µg/L(d)					
Arsenic	Metal	50 µg/L		50 µg/L	50 µg/L	100 µg/L		100 µg/L
Barium	Metal	2,000 µg/L(e)	2,000 µg/L(e)	1,000 µg/L	1,000 µg/L	1,000 µg/L		1,000 µg/L
Beryllium	Metal	4.0 µg/L(d)	4 µg/L(d)					
Boron	Metal							750 µg/L
Cadmium	Metal	5 µg/L(c)	5 µg/L(c)	10 µg/L	10 µg/L	10 µg/L		10 µg/L
Calcium	Metal							
Chromium	Metal	100 µg/L(c)	100 µg/L(c)	50 µg/L	50 µg/L	50 µg/L		50 µg/L
Cobalt	Metal							50 µg/L
Copper	Metal	1,000 µg/L* 1,300 µg/L***	1,300 µg/L(f)				1,000 µg/L	1,000 µg/L
Cyanide	Metal	200 µg/L(d)	200 µg/L(d)			200 µg/L		200 µg/L
Iron	Metal	300 µg/L*					1,000 µg/L	1,000 µg/L
Lead	Metal	15 µg/L***	0(f)	50 µg/L	50 µg/L	50 µg/L		50 µg/L
Magnesium	Metal							
Manganese	Metal	50 µg/L*					200 µg/L	200 µg/L
Mercury	Metal	2 µg/L	2 µg/L(c)	2 µg/L	2 µg/L	2 µg/L		2 µg/L
Molybdenum	Metal							1,000 µg/L

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
Nickel	Metal	100 µg/L(d)	100 µg/L(d)					200 µg/L
Selenium	Metal	50 µg/L(c)	50 µg/L(c)	10 µg/L	10 µg/L	50 µg/L		50 µg/L
Silver	Metal	100 µg/L*(c)		50 µg/L	50 µg/L	50 µg/L		50 µg/L
Sodium	Metal							
Thallium	Metal	2 µg/L(d)	0.5 µg/L(d)					
Tin	Metal							
Titanium	Metal							
Tungsten	Metal							
Vanadium	Metal							
Zinc	Metal	5,000 µg/L*					10,000 µg/L	10,000 µg/L
Gross Alpha	Radionuclide	15 pCi/L			15 pCi/L			
Gross Beta	Radionuclide	4 mrem/yr						
Radium 226+228	Radionuclide	5 pCi/L			5 pCi/L	30 pCi/L		30 pCi/L
Strontium 90	Radionuclide	8 pCi/L			8 pCi/L			
Tritium	Radionuclide	20,000 pCi/L			20,000 pCi/L			
Uranium (total)	Radionuclide					5,000 µg/L		5,000 µg/L
1,1-Dichloroethane	Volatile					25 µg/L		25 µg/L
1,1-Dichloroethene	Volatile	7 µg/L	7 µg/L		7 µg/L	5 µg/L		5 µg/L
1,1,1-Trichloroethane	Volatile	200 µg/L	200 µg/L		200 µg/L	60 µg/L		60 µg/L
1,1,2,2-Tetrachloroethane	Volatile					10 µg/L		10 µg/L
1,1,2,2-Tetrachloroethene	Volatile					20 µg/L		20 µg/L
1,1,2-Trichloroethane	Volatile	5 µg/L(d)	3 µg/L(d)			10 µg/L		10 µg/L
1,1,2-Trichloroethene	Volatile					100 µg/L		100 µg/L
1,2-Dichloroethane	Volatile	5 µg/L	0 µg/L		5 µg/L	10 µg/L		10 µg/L
1,2-Dichloroethene	Volatile							

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs
GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
1,2-Dichloropropane	Volatile	5 µg/L(c)	0 µg/L(c)					
4-Methyl-2-pentanone	Volatile							
Acetone	Volatile							
Benzene	Volatile	5 µg/L	0 µg/L	5 µg/L	5 µg/L	10 µg/L		10 µg/L
Bromodichloromethane	Volatile							
Bromoform	Volatile	Tot THM* <100 µg/L						
Bromomethane	Volatile							
Carbon Tetrachloride	Volatile	5 µg/L	0 µg/L		5 µg/L	10 µg/L		10 µg/L
Chlorobenzene (mono)	Volatile	100 µg/L(c)	100 µg/L(c)					
Chlorobenzilate	Volatile							
Chloroethane	Volatile							
Chloroform	Volatile	Tot THM** <100 µg/L			Tot THM** 100 µg/L	100 µg/L		100 µg/L
Chloroprene	Volatile							
Chloromethane	Volatile							
Cis-1,2-Dichloroethene	Volatile	70 µg/L(c)	70 µg/L(c)					
Cis-1,3-Dichloropropene	Volatile							
Dibromochloromethane	Volatile	Tot THM** <100 µg/L						
Ethyl Benzene	Volatile	700 µg/L(c)	700 µg/L(c)			750 µg/L		750 µg/L
Methylene Chloride	Volatile	5 µg/L(d)	0 µg/L(d)			100 µg/L		100 µg/L
Styrene	Volatile	100 µg/L(c)	100 µg/L(c)					
Tetrachloroethanes	Volatile							
Tetrachloroethene	Volatile	5 µg/L(c)	0 µg/L(c)					

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
Toluene	Volatile	1,000 µg/L(c)	1,000 µg/L(c)			750 µg/L		
Total Trihalomethanes	Volatile	100 µg/L						
Total Xylenes	Volatile	10,000 µg/L(c)	10,000 µg/L(c)			620 µg/L		620 µg/L
Trans-1,2-Dichloroethene	Volatile	100 µg/L(c)	100 µg/L(c)					
Trans-1,3-Dichloropropene	Volatile							
Trichloroethanes	Volatile							
Trichloroethene	Volatile	5 µg/L	0 µg/L		5 µg/L			
Vinyl Acetate	Volatile							
Vinyl Chloride	Volatile	2 µg/L	0 µg/L		2 µg/L	1µg/L		1 µg/L
1,2-Dichlorobenzene (ortho)	Semivolatile	600 µg/L(c)	600 µg/L(c)					
1,3-Dichlorobenzene (meta)	Semivolatile	600 µg/L						
1,4-Dichlorobenzene (para)	Semivolatile	75 µg/L			75 µg/L			
1,2,4-Trichlorobenzene	Semivolatile	70 µg/L(d)	70 µg/L(d)					
2-Chloronaphthalene	Semivolatile							
2-Chlorophenol	Semivolatile							
2-Methylnaphthalene	Semivolatile							
2-Nitroaniline	Semivolatile							
2-Nitrophenol	Semivolatile							
2,3,7,8-Tetrachlorodibenzo-p-dioxin	Semivolatile	$3x10^{-8}$(d)	0 µg/L(d)					
2,4-Dichlorophenol	Semivolatile							
2,4-Dichlorophenoxyacetic Acid (2,4-D)	Semivolatile (H)	70 µg/L(c)	70 µg/L(c)	100 µg/L	100 µg/L			
2,4-Dimethylphenol	Semivolatile							
2,4-Dinitrophenol	Semivolatile							

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs
GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
2,4-Dinitrotoluene	Semivolatile							
2,4,5-TP Silvex	Semivolatile (H)	50 µg/L(c)	50 µg/L(c)	10 µg/L	10 µg/L			
2,4,6-Trichlorophenol	Semivolatile							
3-Nitroaniline	Semivolatile							
4-Bromophenyl Phenylether	Semivolatile							
4-Chloroaniline	Semivolatile							
4-Chlorophenyl Phenyl Ether	Semivolatile							
4-Chloro-3-methylphenol	Semivolatile							
4-Nitroaniline	Semivolatile							
4,6-Dinitro-2-methylphenol	Semivolatile							
Acenaphthalene	Semivolatile							
Acrylonitrile	Semivolatile							
Alachlor	Semivolatile	2 µg/L	0 µg/L					
Aldicarb	Semivolatile (P)	3 µg/L(e)	1 µg/L(e)					
Aldicarb Sulfone	Semivolatile (P)	2 µg/L	1 µg/L					
Aldicarb Sulfoxide	Semivolatile (P)	4 µg/L	1 µg/L					
Aldrin	Semivolatile (P)							
Aniline	Semivolatile							
Anthracene	Semivolatile							
Atrazine	Semivolatile	3 µg/L(c)	3 µg/L(c)					
Benzo(a)anthracene	Semivolatile							
Benzo(a)pyrene	Semivolatile	0.2 µg/L(d)	0 µg/L(d)			0.7 µg/L		0.7 µg/L
Benzo(b)fluoranthene	Semivolatile							
Benzo(g,h,i)perylene	Semivolatile							
Benzo(k)fluoranthene	Semivolatile							

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
Benzyl Alcohol	Semivolatile							
Bis(2-Chloroethoxy)methane	Semivolatile							
Bis(2-Chloroethyl)ether	Semivolatile							
Bis(2-Chloroisopropyl)ether	Semivolatile							
Bis(2-Ethylhexyl)phthalate	Semivolatile							
Butyl Benzylphthalate	Semivolatile							
Carbofuran	Semivolatile (P)	40 µg/L(c)	40 µg/L(c)					
Carbon Disulfide	Semivolatile							
Chlordane	Semivolatile (P)	2 µg/L(c)	0 µg/L(c)					
Chlorophenol	Semivolatile							
DDT	Semivolatile (P)							
DDT metabolite (DDE)	Semivolatile (P)							
DDT metabolite (DDD)	Semivolatile (P)							
Dalapon	Semivolatile (P)	200 µg/L(d)	200 µg/L(d)					
Diallite	Semivolatile							
Dibenzofuran	Semivolatile							
Dibenz(a,h)anthracene	Semivolatile							
Dibromochloropropane	Semivolatile (P)	0.2 µg/L	0 µg/L					
Dichlorobenzene	Semivolatile							
Dichlorobenzene, o	Semivolatile		600 µg/L					
Dichlorobenzidine	Semivolatile							
Dieldrin	Semivolatile (P)							
Di(2-ethylhexyl)adipate	Semivolatile (P)	400 µg/L(d)	400 µg/L(d)					
Diethylphthalate	Semivolatile							
Di(2-ethylhexyl)phthalate	Semivolatile	6.0 µg/L(d)	0 µg/L(d)					

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs
GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
Dimethoate	Semivolatile							
Dimethylphthalate	Semivolatile							
Dinitrotoluene	Semivolatile							
Dinoseb	Semivolatile(H)	7 µg/L(d)	7 µg/L(d)					
Di-n-octylphthalate	Semivolatile							
Diquat	Semivolatile(P)	20 µg/L(d)	20 µg/L(d)					
Endosulfan I	Semivolatile (P)							
Endosulfan II	Semivolatile (P)							
Endosulfan Sulfate	Semivolatile (P)							
Endothall	Semivolatile (P)	100 µg/L	100 µg/L(d)					
Endrin	Semivolatile (P)	2.0 µg/L(d)	2.0 µg/L(d)	0.2 µg/L	0.2 µg/L			
Ethylene Dibromide	Semivolatile	0.05 µg/L(c)	0 µg/L(c)			0.1 µg/L		0.1 µg/L
Fluoranthene	Semivolatile							
Fluorene	Semivolatile							
Glyphosate	Semivolatile(P)	700 µg/L(d)	700 µg/L(d)					
Heptachlor	Semivolatile (P)	0.4 µg/L(c)	0 µg/L(c)					
Heptachlor Epoxide	Semivolatile (P)	0.2 µg/L(c)	0 µg/L(c)					
Hexachlorobenzene	Semivolatile	1.0 µg/L(d)	0 µg/L(d)					
Hexachlorobutadiene	Semivolatile							
Hexachlorocyclohexane, Alpha	Semivolatile (P)							
Hexachlorocyclohexane, Beta	Semivolatile (P)							
Hexachlorocyclohexane, (Lindane)	Semivolatile (P)	0.2 µg/L(c)	0.2 µg/L(c)	4 µg/L	4 µg/L			
Hexachlorocyclohexane, Technical	Semivolatile (P)							

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs
GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
Hexachlorocyclopentadiene	Semivolatile	50 µg/L(d)	50 µg/L(d)					
Hexachloroethane	Semivolatile							
Indeno(1,2,3-cd)pyrene	Semivolatile							
Methoxychlor	Semivolatile (P)	40 µg/L	40 µg/L(c)	100 µg/L	100 µg/L			
Naphthalene	Semivolatile							
Nitrobenzene	Semivolatile							
Nitrophenols	Semivolatile							
Nitrosodibutylamine	Semivolatile							
Nitrosodiethylamine	Semivolatile							
Nitrosodimethylamine	Semivolatile							
Nitrosopyrrolidine	Semivolatile							
N-Nitrosodiphenylamine	Semivolatile							
N-Nitroso-di-n-dipropylamine	Semivolatile							
Oxamyl	Semivolatile(P)	200 µg/L(d)	200 µg/L(d)					
PCBs	PCBs	0.5 µg/L(c)	0 µg/L(c)			1 µg/L		1 µg/L
Pentachlorinated Ethanes	Semivolatile							
Pentachlorophenol	Semivolatile	1 µg/L(c)	0 µg/L(e)					
Phenanthrene	Semivolatile							
Phenol	Semivolatile				5 µg/L		5 µg/L	5 µg/L
Picloram	Semivolatile (H)	500 µg/L	500 µg/L					
Polynuclear Aromatic Hydrocarbons (total PAH)	Semivolatile				30 µg/L	30 µg/L		30 µg/L
Pyrene	Semivolatile							
Simazine	Semivolatile(P)	4 µg/L(d)	4 µg/L(d)					

TABLE 7-3

POTENTIAL SITE-WIDE CHEMICAL-SPECIFIC RASs/TBCs
GROUNDWATER QUALITY STANDARDS
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

		FEDERAL STANDARDS			STATE STANDARDS NMWQCC Groundwater Quality Standards (g)			
Parameter	Type	SDWA Maximum Contaminant Level (a)	SDWA Maximum Contaminant Level Goal (a) ARARs/TBCs	RCRA Subpart F Concentration Limit (40 CFR 264.94) (b)	Community Water Supply System (h)	Human Health	Other Standards for Domestic Water Supply	Irrigation Use
Trans-1,2-Dichloroethene	Semivolatile	100 µg/L	100 µg/L					
Toxaphene	Semivolatile (P)	3 µg/L(c)	0 µg/L(c)	5 µg/L	5 µg/L			

EXPLANATION OF TABLE

(P) Pesticide (H) Herbicide

* = secondary maximum contaminant level (TBCs)
** = total trihalomethanes: chloroform, bromoform, bromodichloromethane, dibromochloromethane
*** = action levels in no more than 10% of tap samples, 56 FR 26460, 6/7/91, effective 12/7/92

NMWQCC = New Mexico Water Quality Control Commission
RCRA = Resource Conservation and Recovery Act
SDWA = Safe Drinking Water Act
(a) EPA National Primary and Secondary Drinking Water Regulations, 40 CFR 141 and 40 CFR 143 (as of 6/95 and 12/94)
(b) RCRA Subpart F, 40 CFR 264.94 (July, 1992)
(c) EPA National Primary and Secondary Drinking Water Regulations, 40 CFR Parts 141, 142, 143, Final Rule, Effective July 30, 1992 (56 Federal Register 3526; 1/30/91)
(d) EPA National Primary Drinking Water Regulations, 40 CFR 141 and 40 CFR 142, Final Rule (57FR 31776, 7/17/92); Effective date is January 17, 1994, (therefore TBCs) except for endrin, which is effective 8/17/92.
(e) EPA National Primary and Secondary Drinking Water Regulations, 40 CFR Parts 141, 142, 143, Final Rule, Effective January 1, 1993 (56 FR 30266, 7/01/91)
(f) EPA Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for Lead and Copper, 40 CFR 141 and 142; effective December 7, 1992 (56 FR 26460, 6/7/91)
(g) NM Water Quality Control Commission, NM Water Quality Regulations, Part 3, Section 3-103, 11/16/1967 amended through August 17, 1991
(h) New Mexico Drinking Water/Water Supply Regulations, adopted April 16, 1991

If no values are shown for a possible contaminant, there are no standards at this time.

TABLE 7-4

POTENTIAL SCREENING CONCENTRATIONS FOR INORGANIC COMPOUNDS IN SOIL (TO BE CONSIDERED)

Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

Compound	RFI Guidance TBCs[a] (mg/kg)	Proposed RCRA Action Level TBCs[b] (mg/kg)	Other TBCs[c] (mg/kg)
aluminum	-	200,000[f]	-
antimony	30	30[d]	-
arsenic*	-	0.4[d]	-
barium	4,000	600[d]	-
beryllium*	0.14	0.2[d]	-
cadmium	-	40[d]	-
calcium	-	-	-
chromium III	80,000	80,000[d]	-
chromium VI	400	400[d]	-
cobalt	-	5000[f]	-
copper	-	3000[e]	-
cyanide	2,000	2000[d]	-
iron	-	-	-
lead	-	-	500 - 1000
magnesium	-	-	-
manganese	-	4000[d]	-
mercury	-	20[e]	-
nickel	2,000	2000[d]	-
potassium	-	-	-
selenium	-	400[d]	-
silver	200	400[d]	-
sodium	-	-	-
thallium	-	6[e]	-
vanadium	-	600[e]	-
zinc	-	20,000[d]	-

TABLE 7-4

POTENTIAL SCREENING CONCENTRATIONS FOR INORGANIC COMPOUNDS IN SOIL (TO BE CONSIDERED) Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI Cannon AFB, New Mexico (Concluded)

a RCRA Facility Investigation Guidance (EPA 1989a); human health-based criteria for systemic toxicants representing an estimate of the daily exposure an individual can experience without appreciable risk of health effects during a lifetime.

b Human Health proposed action levels using calculations in 55 FR 30798, Corrective Action for SWMUs at Hazardous Waste Management Facilities (27 July 1990). Sources of toxicity factors used in calculations include: (1) Integrated Risk Information System (IRIS), (2) Health Effects Assessment Summary Tables (HEAST) FY1992, and (3) USEPA Environmental Criteria and Assessment Office in Cincinnati (ECAO-CIN).

c Source: OSWER Directive 9355.4-02.

d IRIS April, 1994

e HEAST 1994

f Calculated from provisional toxicity values for aluminum and cobalt provided by USEPA (ECAO) 1994.

* Carcinogen

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Herbicides			
2,4,5-T	200	800 (c)	-
2,4,5-TP (Silvex)	600	600 (c)	-
2,4-D	800	800 (c)	-
2,4-DB	-	600(c)	-
Dalaphon	-	2,000 (c)	-
Dicamba	-	2,000 (c)	-
Dichlorprop	-	-	-
Dinoseb	80	80 (c)	-
MCPA	-	40 (c)	-
MCPP	-	80 (c)	-
Pesticides/PCBs			
4,4'-DDD*	2.9	3.0 (c)	
4,4'-DDT*	2.1	2.0(c)	-
4,4'-DDE*	2.1	2.0(c)	-
Aldrin*	0.04	0.04(c)	-
alpha-BHC*	-	0.1(c)	-
alpha-Chlordane*	0.54	0.5(c)	-
Aroclor-1016*	0.09	0.09(c)	(e)
Aroclor-1221*	0.09	0.09(c)	(e)
Aroclor-1232*	0.09	0.09(c)	(e)
Aroclor-1242*	0.09	0.09(c)	(e)
Aroclor-1248*	0.09	0.09(c)	(e)
Aroclor-1254*	0.09	0.09(c)	(e)
Aroclor-1260*	0.09	0.09(c)	(e)

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Pesticides/PCBs (cont'd)			
beta-BHC*	-	0.4(c)	-
Chlordane*	0.54	0.5(k)	
delta-BHC	-	-	-
Diallate*	-	12(f)	
Dieldrin*	0.04	0.04(c)	-
Dimethoate	2,000	16(c)	
Disulfoton	3	3(c)	
Endosulfan I**	4	500(e,g)	-
Endosulfan II**	-	500(g)	-
Endosulfan sulfate	-	500(g)	
Endrin	20	20(c)	-
Endrin ketone	-	-	-
Famphur	-	-	
gamma-BHC	20	0.5(f)	-
gamma-Chlordane*	0.54	0.5(c)	-
Heptachlor	0.16	0.2(c)	-
Heptachlor epoxide*	0.077	0.08(c)	-
Isodrin	-	-	
Kepone	-	-	
Methoxychlor	-	400(c)	-
Methyl parathion	20	20(c)	
Parathion	20	500(f)	
Phorate	-	20(f)	
Toxaphene*	0.64	0.6(c)	-

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Semivolatiles			
1,2,4,5-tetrachlorobenzene	20	20(c)	
1,2,4-trichlorobenzene	2,000	800(c)	-
1,2-dichlorobenzene	-	7,000(c)	-
1,3,5-trinitrobenzene	-	4(c)	
1,3-dichlorobenzene	-	8(c)	-
1,3-dinitrobenzene	-	8(c)	
1,4-dichlorobenzene*	-	29(f)	
1,4-naphthoquinone	-	-	
1-naphthylamine	-	-	
2,3,4,6-tetrachlorophenol	2,000	2,000(c)	
2,4,5-trichlorophenol	8,000	8,000(c)	-
2,4,6-trichlorophenol*	35	6(c)	-
2,2'-oxybis(1-chloropropane)	-	-	-
2,4-dichlorophenol	200	200(c)	-
2,4-dimethylphenol	-	2,000(c)	-
2,4-dinitrophenol	200	200(c)	-
2,4-dinitrotoluene	2.27	200(c)	-
2,6-dichlorophenol	-	-	
2,6-dinitrotoluene*	-	80(f)	-
2-acetylaminefluorone	-	-	
2-chloronaphthalene	-	6,000(c)	-
2-chlorophenol	-	400(c)	-
2-methylnaphthalene	-	-	0.3-220(i)
2-methylphenol	4,000	4,000(c)	-
2-naphthylamine	-	-	

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Semivolatiles (cont'd)			
2-nitroaniline	-	-	-
2-nitrophenol	-	-	-
2-picoline	-	-	
3-3'-dichlorobenzidine*	-	2(c)	-
3,3'-dimethylbenzidine	-	-	
3-methyl cholanthrene	0.074	-	
3-methylphenol	4,000	4,000(c)	
3-nitroaniline	-	-	-
4,6-dinitro-2-methylphenol	-	-	-
4-aminobiphenyl	-	-	
4-bromophenylphenyl ether	-	-	-
4-chloro-3-methylphenol	-	-	-
4-chloroaniline	-	300(c)	-
4-chlorophenylphenyl ether	-	-	-
4-methylphenol	4,000	400(f)	-
4-nitroaniline	-	-	-
4-nitro-1-oxide-quinoline	-	-	
4-nitrophenol	-	-	-
5-nitro-o-toluidine	-	-	
acenaphthene	-	5,000(c)	-
acenaphthylene	-	-	-
acetophenone	8,000	8,000(c)	
aniline	270	-	
anthracene	-	20,000(c)	-
aramite*	-	30(c)	

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Semivolatiles (cont'd)			
benzo(a)anthracene*	0.22	1.0(j)	0.3-220(i)
benzo(a)pyrene*	0.06	0.1(c)	0.3-220(i)
benzo(b)fluoranthene*	-	1.0(j)	0.3-220(i)
benzo(g,h,i)perylene	-	-	0.3-220(i)
benzo(k)fluoranthene*	-	9.6(j)	0.3-220(i)
benzoic acid	-	300,000(c)	-
benzyl alcohol	-	20,000(f)	-
bis(2-chloroethoxy)methane	-	-	
bis(2-chloroethyl)ether*	0.64	0.6(c)	-
bis(2-ethylhexyl)phthalate*	83	50(c)	0.3-220(i)
butyl benzyl phthalate	-	16,000(c)	0.3-220(i)
carbazole*	-	40(f)	-
chlorobenzilate*	-	2.6(f)	
p-chloro-m-cresol	-	-	
chrysene*	-	9.6(j)	0.3-220(i)
dibenzo(a,h)anthracene	0.0143	0.1(j)	0.3-220(i)
dibenzofuran	-	-	0.3-220(i)
dichlorodifluoromethane	20,000	20,000(c)	
dichlorodiisopropyl ether	-	-	
diethylphthalate	60,000	60,000(c)	-
o,o-diethyl o-pyrazinyl phosphoro-thioate	-	-	
p-dimethylaminoazobenzene	-	-	
7,12-dimethylbenz(a)anthracene	-	-	
alpha,alpha-dimethylphenethylamine	-	-	
dimethylphthalate	-	800,000(f)	-

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Semivolatiles (cont'd)			
di-n-butylphthalate	8,000	8,000(c)	-
di-n-octylphthalate	-	20,000(f)	-
diphenylamine	2,000	2,000(c)	
ethyl methanesulfonate	-	-	
fluoranthene	-	3,000(c)	0.3-220(i)
fluorene	-	3,000(c)	0.3-220(i)
hexachlorobenzene*	0.41	0.4(c)	-
hexachlorobutadiene	90	9(c)	-
hexachlorocyclopentadiene	600	600(c)	-
hexachloroethane*	80	50(c)	-
hexachlorophene	-	20(c)	
hexachloropropene	-	-	
indeno(1,2,3-cd)pyrene*	-	1.0(j)	0.3-220(i)
isosafrole	-	-	
isophorone*	2,000	700(c)	-
methacrylonitrile	8	8(c)	
methapyrilene	-	-	
methyl methane sulfonate	-	-	
n-nitrosodiethylamine*	-	0.005(c)	
n-nitrosodimethylamine*	0.014	0.01(c)	
n-nitrosomethylethylamine*	0.032	0.03(c)	
n-nitrosomorpholine	-	-	
n-nitroso-di-n-butylamine*	-	0.1(c)	
n-nitroso-di-n-propylamine*	0.10	0.1(c)	-
n-nitrosodiphenylamine*	-	100(c)	-

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Semivolatiles (cont'd)			
n-nitrosopiperidine	-	-	
n-nitrosopyrrolidine*	0.33	0.3(c)	
naphthalene	-	-	0.3-220(i)
nitrobenzene	40	40(c)	-
pentachlorobenzene	60	60(c)	
pentachloroethane	-	-	
pentachloronitrobenzene*	27.3	2.7(f)	
pentachlorophenol*	2,000	6(c)	-
phenacetin	-	-	
phenanthrene	-	-	-
phenol	3,000	50,000(c)	-
p-phenylenediamine	-	20,000(f)	
pronamide	6,000	6,000(c)	
pyrene	-	2,000(c)	0.3-220(i)
pyridine	80	80(c)	
safrole	-	-	
tetraethyldithiopyrophosphate	-	40(c)	
trans-1,4-dichloro-2-butene	-	-	
o-toluidine	-	-	
o,o,o-triethyl phosphorothioate	-	-	

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Volatiles			
1,1,1-trichloroethane	7,000	-	-
1,1,1,2-tetrachloroethane*	-	30(c)	
1,1,2,2-tetrachloroethane*	35	3.5(c)	-
1,1,2-trichloroethane	120	1.2(c)	-
1,1-dichlorethane*	-	8,000(f)	-
1,1-dichloroethene	12	1.2(c)	-
1,2-dibromo-3-chloropropane*	0.032	0.5(f)	
1,2-dibromoethane*	-	0.008(c)	
1,2-dichloroethane*	7.7	7.7(c)	
1,2-dichloroethene (total)	-	700(f)	-
1,2-dichloropropane	-	-	
1,2,3-trichloropropane	80	500(c)	
1,4-dioxane*	143	60(c)	
2-butanone (MEK)	4,000	50,000(c)	-
2-hexanone (MnBK)	-	-	-
4-methyl-2-pentanone (MIBK)	4,000	6,000(f)	-
acetone	8,000	8,000(c)	-
acetonitrile	500	500(c)	
acrolein	-	2,000(f)	
acrylonitrile*	1.30	1.3(c)	
allyl chloride	-	-	
benzene*	24	20(c)	<100(k)
bromodichloromethane*	2,000	10(c)	-
bromoform*	2,000	90(c)	-

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Volatiles (cont'd)			
bromomethane	30	100(c)	-
carbon disulfide	8,000	8,000(c)	-
carbon tetrachloride*	5.4	5.4(c)	-
chlorobenzene	2,000	2,000(c)	-
chloroethane	-	-	-
chloroform*	110	100(c)	-
chloromethane	-	50(f)	-
chloroprene	-	-	
cis-1,3-dichloropropene	3.9	3.9(f)	-
dibromochloromethane*	-	8.3(c)	-
ethylbenzene	8,000	8,000(c)	<500 (k)
ethyl cyanide	-	-	
ethyl methacrylate	-	7,000(f)	
isobutyl alcohol	20,000	20,000(c)	
methyl bromide	-	100(c)	
methylene bromide	-	-	
methylene chloride*	93	90(c)	-
methyl iodide	-	-	
methyl methacrylate	-	6,000(f)	
styrene	20,000	20,000(c)	-
tetrachloroethene*	140	800(c)	-
toluene	20,000	20,000(c)	<500 (k)
trans-1,2-dichloroethene	-	2,000(c)	
trans-1,3-dichloropropene	20	3.9(f)	-
trichloroethene*	64	-	-

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)
Volatiles (cont'd)			
trichlorofluoromethane	20,000	20,000(c)	
vinyl acetate	-	-	
vinyl chloride*	-	0.4(f)	-
xylenes (total)	200,000	200,000(c)	<500 (k)
Hydrocarbons			
Polycyclic Aromatic	-	-	<50 ppm(l)
Hydrocarbons (PAHs)	-	-	-
Total Petroleum Hydrocarbons (TPH)	-	-	<1000 ppm(m)
Dioxins and Furans			
2,3,7,8,(x,y)-hexachlorodibenzodioxin*	1.10E-04	5E-05(n)	
2,3,7,8,(x)-pentachlorodibenzodioxin*	-	9E-06(n)	
2,3,7,8-tetrachlorodibenzodioxin*	-	5E-06(n)	
1,2,3,7,8-pentachlorodibenzofuran*	-	9E-05(n)	
2,3,4,7,8-pentachlorodibenzofuran*	-	9E-06(n)	
2,3,7,8,(x,y)-hexachlorodibenzofuran*	-	5E-05(n)	
2,3,7,8-tetrachlorodibenzofuran*	-	5E-05(n)	

(a) RCRA Facility Investigation Guidance (EPA 1989a); human health-based criteria for systemic toxicants representing an estimate of the daily exposure an individual can experience without appreciable risk of health effects during a lifetime.

(b) Human health proposed action levels calculated using guidance in 55 FR 30798

(c) Calculated from toxicity values provided in IRIS April, 1994.

(d) 55 FR 30798. EPA has already established standards for cleanup of PCBs under TSCA. The agency has determined that the TSCA cleanup standards are relevant to RCRA corrective action.

TABLE 7-5

POTENTIAL SCREENING CONCENTRATIONS FOR ORGANIC COMPOUNDS IN SOIL
(To Be Considered)
Landfill No. 5 (SWMU No. 113/IRP No. LF-5) Phase I RFI
Cannon AFB, New Mexico

	RFI Guidance(a) TBCs (mg/kg)	Proposed RCRA Action Level(b) TBCs (mg/kg)	Other TBCs (mg/kg)

(e) Cleanup levels for PCB spills occuring before May 4, 1987 are at the discretion of the EPA regional administrator. 40 CFR 761 (Subpart G).

(f) Calculated from toxicity values provided in HEAST 1994.

(g) Toxicity values for Endosulfan adopted for Endosulfan I, Endosulfan II, and Endosulfan sulfate

(h) Value for mixture of dinitrotoluene isomers

(i) Range of anthropogenic and naturally occurring PAH concentrations (Blumer et al. 1977)

(j) EPA 1993. Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons. EPA/625/3-89/016. March 1989.

(k) The sum of benzene, toluene, ethylbenzene, and xylene isomer concentrations is less than 500 mg/kg, with benzene individually less than 100 mg/kg. New Mexico Environmental Improvement Board, New Mexico Special Waste Requirement Regulations. Adopted effective January 30, 1992.

(l) New Mexico Department of Environmental Improvement New Mexico UST Regulations, amended through July 18, 1991.

(m) New Mexico Environmental Improvement Board, New Mexico Special Waste Requirement Regulations, Adopted effective January 30, 1992

(n) EPA 1989. Interim Procedures for Estimating risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-dioxins and -Dibenzofurans (CDDs and CDFs). EPA/625/3-89/016. March 1989.

* Carcinogens

8.0
CONCLUSIONS AND RECOMMENDATIONS

The Phase I RCRA field investigation and subsequent data reduction and evaluation took place during 1995 for Landfill No. 5 (SWMU No. 113). The work was performed in accordance with the Phase I Work Plan approved by NMED on June 14, 1995.

The primary objective of the Phase I RFI was to determine whether a release of hazardous constituents had occurred to subsurface soil beneath landfill cells. If a release had occurred, a secondary objective was to evaluate the nature and extent of contamination and assess potential risks to human health by performing a screening level risk assessment. The ultimate goal of the work described above was to reach a recommendation of "No Further Action," if appropriate, or performance of additional investigations, if warranted. Important conclusions from the Phase I study are presented below, followed by recommendations for the site.

Geophysical and soil gas surveys were performed in early 1995 to help delineate the extent of individual landfill cells and assist in selecting soil boring locations most likely to intercept contamination (if present) in subsurface soil at Landfill No. 5. The geophysical surveys were successful in delineating the lateral extent of at least 23 landfill cells, exclusive of RCRA Cell No. 3. The majority of the cells located as part of the surveys were in the eastern two-thirds of the SWMU.

Subsequent to completion of the geophysical surveys, a soil gas survey was conducted. This survey consisted of field screening using a photo ionization detector (PID) organic vapor analyzer at 808 locations followed by gas chromatography (GC) analysis using a mobile laboratory at 80 locations.

It is important to note that 631 of 808 (i.e., 74 percent) PID screening samples had results below the 7.0 ppm/v the limit of quantitation, suggesting that a majority of locations sampled were at background readings. Field screening PID readings greater than 7.0 ppm/v occurred primarily in the eastern two-thirds of the SWMU along previously delineated landfill cells,

indicating that elevated organic vapors were present in some portions of individual landfill cells, but other portions of the cells did not exhibit elevated levels.

Subsequent GC analyses detected 16 VOCs in soil gas; however, 74 percent of the detections were below 5.0 ppm/v, and the highest detection was 94.2 ppm/v for dichlorodifluoromethane, a historically common refrigerant.

Results of the soil gas survey were used to select 30 soil boring locations which were approved by NMED on June 14, 1995 prior to drilling. Boring locations were selected at sites believed most likely to contain contaminants, based on soil gas results. The 30 soil borings were drilled in July and August 1995 and in accordance with the approved Work Plan, 150 subsurface and 10 surface soil samples were collected and analyzed for the following:

- TCL VOC
- TCL SVOC
- TAL metals
- Pesticides/PCB
- Herbicides (60 samples)
- TOC (24 samples)
- TRPH

Appendix IX analyses were conducted on the bottom sample collected in each boring.

The following conclusions regarding nature and extent of contamination in subsurface soil at Landfill No. 5 are based upon an evaluation of analytical results from 150 field samples, and field observations while drilling. Results for subsurface samples only are discussed below in evaluating potential releases of hazardous constituents beneath landfill cells at Landfill No. 5. However, the Human Health Risk Screen did consider results for both surface and subsurface soil samples.

Metals

Ten metals (i.e., aluminum, barium, chromium, copper, iron, magnesium, nickel, silver, vanadium, and zinc) were detected in at least one subsurface soil sample above the background range established in an earlier study for Cannon AFB (W-C 1994). Out of 1,500 analytical results for these 10 metals, background was exceeded for only 55 results (i.e., a frequency of 4 percent). Given the isolated and random occurrence of these metals above background within individual borings and areally across Landfill No. 5, it appears that site-specific geologic factors probably account for exceedences and these metals are not likely due to contamination from waste in the landfill cells. In a majority of cases, the metals listed above did not exceed background in the sample collected immediately beneath the landfill cell. Typically within the same boring the metal exceeding background was not detected above background in samples collected above or below the interval where the exceedence occurred.

Semivolatiles

Twelve SVOCs were detected in subsurface soil samples and included seven PAHs (2-methylnaphthalene, acenaphthene, chrysene, fluoranthene, fluorene, phenanthrene, pyrene), three phenols (4-methylphenol, 4-nitrophenol, phenol), and one furan (dibenzofuran).

PAH compounds were restricted to two borings (i.e., 113-01 and 113-13). The concentrations were all below the laboratory reporting limit of 360 µg/kg. As such they were in the range for which quantitation of sample results is uncertain and were qualified as estimated. It should be noted that PAHs in boring 113-01 occurred in the sample collected at 63 feet, but not in shallower samples. Additionally, the PAHs in boring 113-13 were, for the most part, detected in the sample at 40 feet with significantly fewer detections above or below this sample.

Phenols were detected eight times scattered over 5 borings all at values equal to or below the laboratory reporting limit. In two borings, no phenols were detected in the sample collected immediately beneath the landfill cell. However, phenol was detected immediately beneath the landfill cell at 360 µg/kg, and 40 "J" µg/kg in borings 113-01 and 113-16, respectively.

The SVOC 4-methylphenol (100 "J" µg/kg) and 4-nitrophenol (49 "J" µg/kg) were also detected immediately beneath the landfill cell in borings 113-16 and 113-15, respectively. These data indicate that a minor release of phenols possibly could have occurred at borings 113-01, 113-15, and 113-16.

Dibenzofuran was detected in only one sample (44 "J" µg/kg) collected at Landfill No. 5. This detection occurred in the second interval sampled below the landfill cell in boring 113-13.

Volatiles

A total of eight VOCs (i.e., 1,1,2,2-tetrachloroethane, 2-hexanone, 4-methyl-2-pentanone, acetonitrile, carbon disulfide, ethylbenzene, styrene, and toluene) were detected at 16 boring locations scattered across Landfill No. 5. These eight VOCs were detected in subsurface soil a total of 29 times out of 1,200 analytical results for these chemicals — a frequency of 3 percent. Concentrations of the detected VOCs ranged from 1 "J" µg/kg to 1,400 µg/kg. Twenty-four of the 29 detections were below the laboratory reporting limit and were therefore in the range for which quantitation is considered uncertain and were qualified as estimated. Detection of ethylbenzene and styrene at concentrations of 300 µg/kg and 1,400 µg/kg, respectively, in boring 113-13 and 4-methyl-2-pentanone (MIBK) at 230 µg/kg immediately beneath the landfill cells are the only results indicative of a potential release of VOCs. Two of these compounds (i.e., ethylbenzene and styrene) were not detected in deeper samples collected within boring 113-13, while MIBK was detected in the two deeper intervals collected in boring 113-16 below the interval sampled immediately beneath the landfill cell.

Other Analytes

Only one detection of Aroclor 1254 at a minor concentration of 75 µg/kg occurred during the Phase I RFI and this result does not indicate a significant release has occurred to subsurface soil at Landfill No. 5 for this compound. No pesticides, herbicides, or cyanide were detected. TRPH was detected in subsurface soil samples at concentrations ranging from 66.5 mg/kg to 170 mg/kg. These results indicate the presence of only minor contamination. A number of

VOC and SVOC TICs were reported by the laboratory. However, the majority of these compounds appeared to be potentially non-toxic alcohols, fatty acids and esters, saturated hydrocarbon and unknowns. TICs with potential toxicity were further evaluated in the human health risk screen.

In conclusion, it appears that if a release of hazardous constituents has occurred at Landfill No. 5, it has been insignificant. Additionally, based on the fact that free liquids or soil saturated with liquid wastes were not observed within the landfill wastes while drilling, the potential for a release to occur at Landfill No. 5 in the future is minimal.

Human Health Risk Screen

A Human Health Risk Screen (HHRS) was performed as part of the Phase I evaluation for Landfill No. 5. The purpose of the HHRS was to determine whether chemicals of interest (COIs) were detected in soils at levels that may pose an unacceptable risk to human health. The HHRS was performed according to Step No. 5 identified in the Phase I RFI Work Plan Decision Diagram.

The HHRS evaluation was screening level because it compared maximum detected chemical concentrations regardless of sample depth to risk-based screening concentrations (i.e., proposed RCRA Action Levels for soil ingestion assuming residential use. The HHRS did not include estimating reasonable exposure concentrations or assessing current or future site-specific exposure conditions (e.g., future residential land use is considered to be extremely unlikely at this site). Therefore, the HHRS likely overestimated hazard/risk at Landfill No. 5 and will be protective of human health.

COIs evaluated during the HHRS included:

Inorganic Compounds	Organic Compounds
Aluminum	1,1,2,2-Tetrachloroethene
Barium	4-Methyl-2-pentanone (MIBK)
Beryllium	4-Methylphenol
Chromium	4-Nitrophenol
Cobalt	Acenaphthene
Copper	Acetonitrile

Inorganic Compounds	Organic Compounds
Lead	Aroclor 1254
Manganese	Carbon disulfide
Nickel	Chrysene
Silver	Ethylbenzene
Tin	Fluoranthene
Vanadium	Fluorene
Zinc	Phenol
	Pyrene
	Styrene
	Toluene

Of the COIs, only one carcinogen, beryllium had a maximum concentration (0.7 mg/kg) exceeding its proposed RCRA Action Level (0.2 mg/kg). This one maximum value was the only result for this metal that exceeded the upper limit of the background range (0.6 mg/kg) for 160 samples collected and analyzed. The associated cancer risk for beryllium assuming a 70-year soil ingestion exposure to the maximum concentration was 4E-06, well within EPA's target cancer risk range of 1E-06 to 1E-04. Estimated cumulative cancer risk from exposure to maximum concentrations of all detected carcinogens was also 4E-06 due to the presence of beryllium. When the 95% UCL of the arithmetic mean is used to represent the exposure concentration of beryllium in soil, the site concentration (0.24 mg/kg) is approximately equal to the proposed RCRA Action Level (0.2 mg/kg) and the chemical-specific and cancer risk is approximately 1E-06 from soil ingestion. Because the use of maximum detected concentrations overestimates cancer risk for each COI, and cancer risk estimates were nevertheless within EPA's target risk range, it was concluded that exposure to COIs at Landfill No. 5 is not likely to pose an unacceptable risk of cancer.

No noncarcinogenic chemical had a maximum concentration exceeding its proposed RCRA Action Level. The cumulative hazard index for noncarcinogenic effects was 1, indicating that maximum concentrations of noncarcinogenic chemicals in soil at Landfill No. 5 do not pose an unacceptable risk to human health.

A proposed RCRA Action Level could be calculated for only two TICs, acetic acid, ethyl ester (ethyl acetate) and acetic acid, methyl ester (methyl acetate) since toxicity factors were not available for the other reported TICs. The maximum detected concentration of ethyl acetate during the Phase I RFI was 0.11 mg/kg while the proposed RCRA Action Level was

70,000 mg/kg, yielding a hazard quotient of 2E-06. The maximum detected concentration of methyl acetate was 0.0074 mg/kg while the proposed RCRA Action Level was 80,000 mg/kg, yielding a hazard quotient of 9.3E-08. These values were well below 1 indicating that ethyl acetate and methyl acetate at the site will not pose a threat to human health. Remaining TICs were evaluated qualitatively and from that evaluation it was concluded that the TICs would not likely pose an unacceptable risk to human health.

Based on the results of the HHRS, it was concluded that COIs at Landfill No. 5 do not pose an unacceptable risk to human health.

Recommendations

Based on the results and conclusions of the Phase I RFI, "**No Further Action**" is recommended for this SWMU. This recommendation is supported by lack of a significant release of hazardous constituents into subsurface soil and a human health risk screen that indicated an unacceptable risk to human health was not present from chemicals that were detected during the Phase I RFI for Landfill No. 5. Continued monitoring of groundwater quality from wells installed to assess potential impacts to groundwater from closed RCRA Cell No. 3 should be adequate for this SWMU.

9.0
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TO VIEW THE MAP AND/OR MAPS WITH THIS DOCUMENT, PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT

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VOLUME II

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PHASE I RCRA FACILITY INVESTIGATION REPORT FOR LANDFILL NO. 5 (SWMU NO. 113/ IRP NO. LF-5)

PROJECT CZQZ 92 7007

CANNON AIR FORCE BASE

CLOVIS, NEW MEXICO

Prepared for
Commander 27 FW
100 South D.L. Ingram Blvd.
Suite 100
Cannon AFB, NM 88103-5214

May 1998

DRAFT
VOLUME II

RECEIVED
MAR 8 1996

PHASE I RCRA FACILITY INVESTIGATION REPORT FOR LANDFILL NO. 5 (SWMU NO 113/IRP NO. LF-5) PROJECT CZQZ 92 7007 CANNON AIR FORCE BASE CLOVIS, NEW MEXICO

Prepared for
U.S. Department of the Army
Corps of Engineers, Omaha District
Omaha, Nebraska
February 1996

Woodward-Clyde

Woodward-Clyde Consultants
101 S. 108th Avenue
Omaha, NE 68154

APPENDIX A
SURVEYOR NOTES

APPENDIX A
SURVEYOR NOTES

Horizontal control for the topographic survey conducted at Landfill No. 5 was performed using previously mapped baseline points or closed traverses established for SWMUs 106-3 and 95-4 at Cannon AFB. The coordinates of these baseline points are the New Mexico State Plane East Zone. The field notes and the reductions for these traverses are attached.

All coordinates shown for both the exterior boundaries and grid points established at Landfill No. 5 were based on ground distances and boring locations were surveyed by sideshot methods.

ROBERT L. LYDICK
ROBERT CHAD LYDICK
Professional Engineer and Land Surveyor

Lydick
ENGINEERS AND SURVEYORS, INC.
205 E. SECOND STREET - P.O. BOX 1386
CLOVIS, NEW MEXICO 88102-1386
505 762-3771 - FAX 505 762-9093

Registered
New Mexico
Texas - Oklahoma
Colorado

MS. KAREN PHILLIPS:

HORIZONTAL CONTROL FOR THE TOPOGRAPHIC SURVEY OF LANDFILL NO. 5 PERFORMED BY LYDICK ENGINEERS & SURVEYORS IN JANUARY, 1995 WAS ESTABLISHED USING A BASELINE OF THE FOLLOWING POINTS.

SWMU 106-3
N: 1,227,596.63
E: 809,648.89

SWMU 95-4
N: 1,233,853.98
E: 809,426.95

THE COORDINATES OF THESE BASELINE POINTS ARE NEW MEXICO STATE PLANE EAST ZONE. THEY WERE PREVIOUSLY ESABLISHED BY SEVERAL CLOSED TRAVERSES USING USC&GS TRIANGULATION STATIONS "PORTAIR" & "PORTAIR AZIMUTH" (NAD '27) AS A BASELINE. THE FIELD NOTES & REDUCTIONS FOR THESE TRAVERSES ARE ENCLOSED.

AS THIS SURVEY WAS FOR SPECIFIC FIELD LOCATION OF CERTAIN POINTS AND FOR TRUE CONTOURING, ALL COORDINATES SHOWN FOR BOTH THE EXTERIOR BOUNDARIES AND GRID POINTS OF LANDFILL NO.5 ARE BASED ON GROUND DISTANCES WHICH WERE NOT REDUCED.

THE BORING LOCATION SURVEY PERFORMED IN JULY, 1995 WAS BASED ON THE SAME DATA. BORINGS WERE LOCATED BY SIDESHOT AND COORDINATES WERE NOT REDUCED TO NEW MEXICO STATE PLANE GRID COORDINATES.

ELEVATIONS ARE NVD '29 AND BASED ON USC&GS STATION "V-160".

PLEASE DO NOT HESITATE TO CALL IF I CAN BE OF ANY FURTHER ASSISTANCE IN THIS MATTER.

SINCERELY,

Brad C. Rose

BRAD C. ROSE

①

INSTRUMENT DATA

MAKE: SOKKIA
MODEL: SET4BII
SERIAL NO: 16835 AND 112333
MINIMUM DISPLAY ANGLE: 5"
DISTANCE ACCURACY: 5 mm + 3 ppm • D

②

Date: 11/11/93
Time: 10:30 A.M.
Temp: 59°
Press: 29.84

B. Rose
K. King
G. Eham

Begin CONTROL Exterior Traverse

Baseline is Portair Triangulation Sta. To
Portair Azimuth

Instrument: Sokkia Set 4B II
Serial No. 16835

③

Traverse Data (Main Loop)

⊼	BS	FS	AR1	AR2	D1	AR3	AR4	D2
Portair	Portair Azimuth	LY-121	[illegible]	83.0600	1455.99	[illegible]	[illegible]	[illegible]
LY-121	Portair	LY-122	183.2520	3.2515	[illegible]	183.25	3.2515	3338.95
LY-122	LY-121	LY-123	173.0320	353.0320	2217.68	173.0320	353.0320	2217.68
LY-123	LY-122	LY-124	190.4745	10.4745	[illegible]	190.4750	10.4750	[illegible]
LY-124	LY-123	LY-125	180.1800	0.1755	[illegible]	180.1800	[illegible]	[illegible]
LY-125	LY-124	LY-126	36.2410	216.2405	[illegible]	36.2405	216.2405	[illegible]
LY-126	LY-125	LY-127	161.1930	341.1930	[illegible]	161.1930	341.1930	[illegible]
LY-127	LY-126	LY-128	171.0000	359.0000	[illegible]	[illegible]	359.0000	[illegible]
LY-128	LY-127	LY-129	162.4830	342.4830	[illegible]	162.4830	342.4830	2465.20
LY-129	LY-128	LY-130	[illegible]	330.0710	[illegible]	150.0710	330.0710	2838.09

④

⊼	BS	FS	AR1	AR2	L1
LY-130	LY-129	LY-131	127.0655	307.0650	1049.98
LY-131	LY-130	Portair	189.1710	9.1710	1168.38
Portair	LY-131	LY-121	66.2325	246.2325	

AR3	AR4	L2
127.0655	307.0655	1049.94
189.1710	9.1710	1168.38
66.2320	246.[illegible]	

(12)

Traverse #9 SWMU 95

⊼	BS	FS	AR1	AR2	D1	AR3	AR4	D2		
LY-122	95-6	95-1	39.1050	219.1050		39.1050	219.1050			
LY-122	LY-121	95-1	289.2715	109.2710	586.35	289.2715	109.2710	586.35		
95-1	LY-122	95-2	97.1040	277.1040	50.27	97.1040	277.1040	50.28		
95-2	95-1	95-3	98.0820	278.0820	458.07	98.0825	278.0825	458.07		
95-3	95-2	95-4	223.4935	43.4930	1276.28	223.4930	43.4925	1276.28		
95-4	95-3	95-5	103.5645	283.5645	126.18	103.5650	283.5650	126.18		
95-5	95-4	95-6	74.4055	254.4050	1357.78	74.4055	254.4055	1357.77		
95-6	95-5	LY-122	263.0225	83.0225	128.60	263.0230	83.0230	128.60		

SWMU NO. 106

T	BS	FS	AR1	AR2	DIST 1	AR3	AR4	DIST. 2
LY-125	106-4	106-1	23 03 10	203 03 20		23 03 15	203 03 15	
LY-125	LY-124	106-1	209 55 50	29 55 35	847.61	209 55 50	29 56 35	847.61
106-1	LY-125	106-2	149 46 30	329 46 15	109.80	149 46 30	329 46 15	109.80
106-2	106-1	106-3	89 49 30	269 49 20	337.10	89 49 30	269 49 20	337.09
106-3	106-2	106-4	88 55 15	268 55 00	110.02	88 56 10	268 55 20	110.01
106-4	106-3	LY-125	188 25 20	8 25 15	736.87	188 25 20	8 25 10	736.87

JOB WOODWARD-CLYDE TRAVERSE CONTROL (UNADJUSTED FIELD DATA) DATE 11-17-93

BASE LINE PORTAIR TO PORTAIR AZIMUTH MARK BASE LINE GRID BEARING S 89°07'59" W

STATION	FIELD HORZ. DIST.	FIELD ANGLE	GRID BEARING	LAT.	DEP.
PORTAIR AZ					
		263°06'07.5" RT	N 89°07'59" E		
PORTAIR					
	1455.99	183°25'17.5" RT	S 7°45'53.5" E	-1442.64	196.72
LY-121					
	3338.95	173°03'20" RT	S 1°20'36" E	-3329.36	252.87
LY-122					
	2217.68	190°47'47.5" RT	S 11°17'16" E	-2174.78	434.08
LY-123					
	2168.92	180°17'57.5" RT	S 0°29'28.5" E	-2168.84	18.60
LY-124					
	2427.21	318°24'07.5" RT	S 0°11'31" E	-2427.20	8.13
LY-125					
	2521.38	161°17'32.5" RT	N 36°12'36.5" E	2034.39	1489.50
LY-126					
	2060.695	179°00'00" RT	N 17°30'09" E	1965.29	619.75
LY-127					
	2252.97	162°48'32.5" RT	N 16°30'09" E	2160.16	639.97
LY-128					
	2465.20	150°07'10" RT	N 0°41'18.5" W	2465.02	-29.62
LY-129					
	2879.09	127°06'55" RT	N 30°34'08.5" W	2478.95	-1464.24
LY-130					
	1049.93	189°17'10" RT	N 83°27'13.5" W	119.70	-1043.08
LY-131					
	1168.38	66°23'22.5" RT	N 74°10'03.5" W	318.76	-1124.06
PORTAIR					
	26006.395	1799°59'12"		-0.55	-1.38

DATE OF FIELD SURVEY 11-11-93
INSTRUMENT SOKKIA SET4BII, SN 16835
INSTRUMENT MAN B. ROSE
RODMAN K. KING
RODMAN G. ELAM
FIELD BOOK PAGES 2-4

CLOSING LINE = N 68° 16'13" E, 1.49 FEET
PRECISION = 1: 17453
ANGLE CORRECTION = +4" PER ANGLE

JOB WOODWARD-CLYDE TRAVERSE CONTROL DATE 11-17-93

BASE LINE PORTAIR TO PORTAIR AZMITH MARK BASE LINE GRID BEARING S 89°07'59"W

STATION	FIELD HORZ. DIST.	GRID DIST.	ADJUSTED FIELD ANGLE	GRID BEARING	UNADJUSTED LAT.	UNADJUSTED DEP.	ADJUSTED LAT.	ADJUSTED DEP.	Y	X	ADJUSTED GRID BEARING	ADJUSTED GRID DIST.
PORTAIR AZ												
			263°06'07.5" RT	S 89°07'59" W							S 89°07'59" W	
PORTAIR									1239978.79	808821.47		
	1455.99	1455.70	183°21'21.5" RT	S 7°45'53.5" E	-1442.35	196.68	-1442.34	196.69			S 7°45'56" E	1455.69
LY-121									1238536.45	809018.16		
	3338.95	3338.285	173°03'24" RT	S 4°20'32" E	-3328.70	252.75	-3328.68	252.78			S 4°20'34" E	3338.26
LY-122									1235207.77	809270.94		
	2217.68	2217.238	190°47'51.5" RT	S 11°17'08" E	-2174.37	433.91	-2174.36	433.93			S 11°17'10" E	2217.24
LY-123									1233033.41	809704.87		
	2168.92	2168.488	180°18'01.5" RT	S 0°29'16.5" E	-2168.41	18.47	-2168.40	18.49			S 0°29'19" E	2168.48
LY-124									1230865.01	809723.36		
	2427.21	2426.737	36°24'11.5" RT	S 0°11'15" E	-2426.72	7.94	-2426.71	7.96			S 0°11'17" E	2426.72
LY-125									1228438.30	809731.32		
	2521.38	2520.878	161°17'36.5" RT	N 36°12'56.5" E	2033.84	1489.40	2033.86	1489.42			N 36°12'57" E	2520.90
LY-126									1230472.16	811220.74		
	2060.695	2060.285	179°00'04" RT	N 17°30'33" E	1964.83	619.85	1964.84	619.87			N 17°30'34" E	2060.30
LY-127									1232437.00	811840.61		
	2252.97	2252.521	162°48'36.5" RT	N 16°30'37" E	2159.65	640.14	2159.66	640.16			N 16°30'38" E	2252.54
LY-128									1234596.66	812480.77		
	2465.20	2464.709	150°07'14" RT	N 0°40'46.5" W	2464.54	-29.13	2464.56	-29.21			N 0°40'45" W	2464.73
LY-129									1237061.22	812451.56		
	2879.09	2878.517	127°06'59" RT	N 30°33'32.5" W	2478.71	-1463.51	2478.73	-1463.50			N 30°33'31" W	2878.53
LY-130									1239539.95	810988.06		
	1049.93	1049.721	189°17'14" RT	N 83°26'33.5" W	119.88	-1042.85	119.89	-1042.84			N 83°26'30" W	1049.71
LY-131									1239659.84	809945.22		
	1168.38	1168.147	66°23'26.5" RT	N 74°09'19.5" W	318.94	-1123.76	318.95	-1123.75			N 74°09'17" W	1168.14
PORTAIR									1239978.79	808821.47		
			1800°00'00"		-0.16	-0.21	0	0				

SEA LEVEL FACTOR = 0.99978 (FROM TABLE)

AVERAGE X = 810800±

x' = 810800 - 500000 = 310800

SCALE FACTOR = 1.0000209 (FROM TABLE)

COMBINED FACTOR = 0.99978 x 1.0000209 = 0.9998009

11/17/93 13:18 ☎ 503 762 9693 LYDICK/WESTBROOK P.10

JOB WOODWARD-CLYDE TRAVERSE SWMU NO. 95 (UNADJUSTED FIELD DATA) DATE 11-19-93

BASE LINE LY-122 TO LY-121 BASE LINE GRID BEARING N 4°20'34"W

CHECK

STATION	FIELD HORZ. DIST.	FIELD ANGLE	GRID BEARING	LAT.	DEP.
LY-121					
		289°27'15" RT			
LY-122					
	586.35	97°10'40" RT	N 74°53'19" W	152.86	-566.07
95-1					
	50.275	98°08'20" RT	S 22°17'21" W	-46.52	-19.07
95-2					
	458.07	223°49'30" RT	S 50°34'19" E	-231.99	394.98
95-3					
	1276.28	103°56'50" RT	S 15°44'49" E	-1228.38	346.37
95-4					
	126.18	74°40'55" RT	N 88°12'01" E	3.96	126.12
95-5					
	1357.775	263°02'30" RT	N 17°07'04" W	1297.63	-399.64
95-6					
	128.60	39°10'50" RT	N 65°55'26" E	52.46	117.41
LY-122					
	3983.53	899°59'35"		0.02	0.10

DATE OF FIELD SURVEY 11-93
INSTRUMENT SOKKIA SET4BII
INSTRUMENT MAN ROSE
RODMAN KING
RODMAN ELAM
FIELD BOOK PAGES 21-23

CLOSING LINE = 0.10 FEET
PRECISION = 1: 39835
ANGLE CORRECTION = +3.57" PER ANGLE

JOB WOODWARD-CLYDE TRAVERSE SWMU NO. 95 DATE 11-19-93

BASE LINE LY-122 TO LY-121 BASE LINE GRID BEARING N 4°20'34"W

STATION	FIELD HORZ. DIST.	GRID DIST.	ADJUSTED FIELD ANGLE	GRID BEARING	UNADJUSTED LAT.	UNADJUSTED DEP.	ADJUSTED LAT.	ADJUSTED DEP.	NEW MEXICO STATE PLANE COORD. EAST ZONE Y	X	ADJUSTED GRID BEARING	ADJUSTED GRID DIST.
LY-121									1238536.45	809018.16		
			289°27'15" RT	N 4°20'34"W								
LY-122									1235207.77	809270.94		
	586.35	586.232	97°10'43.6" RT	N 74°53'19" W	152.83	-565.96	152.83	-565.98			N74°53'20"W	586.25
95-1									1235360.60	808704.96		
	50.275	50.265	98°08'23.6" RT	S 22°17'24.6" W	-46.51	-19.07	-46.51	-19.07			S22°17'40"W	50.27
95-2									1235314.09	808685.89		
	458.07	457.978	223°49'33.6" RT	S 59°34'11.8" E	-231.96	394.89	-231.96	394.87			S59°34'07"E	457.96
95-3									1235082.13	809080.76		
	1276.28	1276.023	103°56'53.6" RT	S 15°44'38.2" E	-1228.15	346.23	-1228.15	346.19			S15°44'31"E	1276.01
95-4									1233853.98	809426.95		
	126.18	126.155	74°40'58.6" RT	N 88°12'15.4" E	3.95	126.09	3.95	126.09			N88°12'20"E	126.15
95-5									1233857.93	809553.04		
	1357.775	1357.502	263°02'33.6" RT	N 17°06'46" W	1297.40	-399.45	1297.40	-399.49			N17°06'52"W	1357.51
95-6									1235155.33	809153.55		
	128.60	128.574	39°10'53.6" RT	N 65°55'47.6" E	52.44	117.39	52.44	117.39			N65°55'44"E	128.57
LY-122									1235207.77	809270.94		
		3982.73	900°00'00"		0	0.12	0	0				

SEA LEVEL FACTOR = 0.99978 (FROM TABLE)

AVERAGE X = 809200

x' = 809200 - 500000 = 309200

SCALE FACTOR = 1.0000188 (FROM TABLE)

COMBINED FACTOR = 0.99978 x 1.0000188 = 0.9997988

JOB WOODWARD-CLYDE TRAVERSE SWMU NO. 106 (UNADJUSTED FIELD DATA) DATE 11-30-93

BASE LINE LY-125 TO LY-124 BASE LINE GRID BEARING N 0°11'17"W

STATION	FIELD HORZ. DIST.	FIELD ANGLE	GRID BEARING	LAT.	DEP.
LY-124					
		209°55'40" RT	N 0°11'17" W		
LY-125					
	847.61	149°46'25" RT	S 29°44'23" W	-735.97	-420.47
106-1					
	109.80	89°49'25" RT	S 89°29'12" E	-109.80	0.93
106-2					
	337.095	88°55'15" RT	N 89°20'13" E	3.90	337.07
106-3					
	110.015	188°25'20" RT	N 1°44'32" W	109.96	-3.34
106-4					
	736.87	23°03'15" RT	N 6°40'48" E	731.87	85.72
LY-125					
	2141.39	539°59'40"		-0.04	-0.09

DATE OF FIELD SURVEY 11-93
INSTRUMENT SOKKIA SET4BII
INSTRUMENT MAN STRATTON
RODMAN REEVES
RODMAN
FIELD BOOK PAGE 59

CLOSING LINE = 0.10 FEET
PRECISION = 1: 21414
ANGLE CORRECTION = 4" PER ANGLE

JOB WOODWARD-CLYDE TRAVERSE SWMU NO. 106 DATE 11-30-93

BASE LINE LY-125 TO LY-124 BASE LINE GRID BEARING N 0°11'17" W

STATION	FIELD HORZ. DIST.	GRID DIST.	ADJUSTED FIELD ANGLE	GRID BEARING	UNADJUSTED LAT.	UNADJUSTED DEP.	ADJUSTED LAT.	ADJUSTED DEP.	NEW MEXICO STATE PLANE COORD. EAST ZONE Y	X	ADJUSTED GRID BEARING	ADJUSTED GRID DIST.
LY-124									1230865.01	809723.36		
			209°55'40" RT	N 0°11'17" W								
LY-125									1228438.30	809731.32		
	847.61	847.439	149°46'29" RT	S 29°44'23" W	-735.82	-420.38	-735.80	-420.37			S 29°44'23" W	847.42
106-1									1227702.50	809310.95		
	109.80	109.778	88°49'29" RT	S 0°29'08" E	-109.77	0.93	-109.77	0.93			S 0°29'01" E	109.77
106-2									1227592.73	809311.88		
	337.095	337.077	88°55'19" RT	N 89°20'21" E	3.89	337.00	3.90	337.01			N 89°20'13" E	337.03
106-3									1227596.63	809648.89		
	110.015	109.992	188°25'24" RT	N 1°44'20" W	109.94	-3.34	109.94	-3.34			N 1°44'24" W	109.99
106-4									1227706.57	809645.55		
	736.87	736.722	23°03'19" RT	N 6°41'04" E	731.71	85.76	731.73	85.77			N 6°41'08" E	736.74
LY-125									1228438.30	809731.32		
		2140.96	540°00'00"		-0.05	-0.03	0	0				

SEA LEVEL FACTOR = 0.99978 (FROM TABLE)

AVERAGE X = 809500 ±

x' = 809500 - 500000 = 309500

SCALE FACTOR = 1.0000188 (FROM TABLE)

COMBINED FACTOR = 0.99978 x 1.0000188 = 0.9997987

APPENDIX B
GEOPHYSICAL SURVEY TECHNICAL REPORT

PHASE I RCRA FACILITY INVESTIGATION REPORT
LANDFILL NO. 5
SWMU NO. 113/IRP NO. LF-5

APPENDIX B
GEOPHYSICAL SURVEY TECHNICAL REPORT

PROJECT CZQZ 92 7007
CANNON AIR FORCE BASE, NEW MEXICO

DECEMBER 1995

Prepared For

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C3M11M (2C)

TABLE OF CONTENTS

Section		Page
1.0	INTRODUCTION	1
1.1	PURPOSE AND SCOPE	1
2.0	GEOPHYSICAL METHODS	2
2.1	ELECTROMAGNETIC METHOD	2
2.2	MAGNETICS METHOD	4
3.0	FIELD PROGRAM	6
3.1	LANDFILL NO. 5 GEOPHYSICAL PROGRAM	6
3.2	GEOPHYSICAL FIELD INVESTIGATIONS	7
4.0	SURVEY RESULTS	9
5.0	SUMMARY	12
5.1	LIMITATIONS	12

LIST OF FIGURES

FIGURE 1 GEOPHYSICAL STATION LOCATION MAP
FIGURE 2 ELECTROMAGNETIC CONTOUR MAP HORIZONTAL DIPOLE MODE QUADRATURE RESPONSE
FIGURE 3 ELECTROMAGNETIC CONTOUR MAP HORIZONTAL DIPOLE MODE INPHASE RESPONSE
FIGURE 4 ELECTROMAGNETIC CONTOUR MAP VERTICAL DIPOLE MODE QUADRATURE RESPONSE
FIGURE 5 ELECTROMAGNETIC CONTOUR MAP VERTICAL DIPOLE MODE INPHASE RESPONSE
FIGURE 6 MAGNETICS CONTOUR MAP TOTAL FIELD DATA
FIGURE 7 MAGNETICS CONTOUR MAP GRADIENT RESPONSE
FIGURE 8 COMPARISON OF TOTAL MAGNETIC FIELD RESULTS TO REPORTED TRENCH LOCATIONS

1.0
INTRODUCTION

1.1 PURPOSE AND SCOPE

This report summarizes the activities and results of geophysical investigations performed at Landfill No. 5 (SWMU No. 113/IRP No. LF-5), Cannon Air Force Base, Clovis, New Mexico. The geophysical work was conducted in accordance with activities specified in the Phase I RFI Work Plan for Landfill No. 5 (W-C 1995), as approved by the New Mexico Environment Department on September 28, 1994. The objectives of the geophysical investigations included the following:

- delineating the edges of the landfill
- locating waste-filled pits, trenches or cells within the landfill
- identifying potential areas of contamination
- obtaining information for use in correlating with soil gas survey results.

A combination of two surface geophysical techniques were selected to accomplish these objectives and included electromagnetic (EM) and magnetic methods. The following sections provide descriptions of the EM and magnetic methods and a discussion of the field program and results of the geophysical surveys.

2.1 ELECTROMAGNETIC METHOD

Electromagnetic (EM) methods provide a rapid means of measuring the electrical conductivity of subsurface soil and rock. EM data can aid in:

- delineating the lateral extent of landfill and/or trench materials;
- the detection of buried drums or other metallic objects;
- estimating the depth and thickness of subsurface units;
- characterizing soil and rock units, and lateral variations within the units;

The EM method involves the induction of an electrical current into the earth. A small alternating current is generated by a transmitter coil that introduces a primary, time-varying magnetic field into the ground. Through inductive coupling, the primary magnetic field produces small eddy currents in the subsurface. The eddy currents produce a secondary magnetic field. A receiver coil measures both the primary and secondary fields. Changes in magnitude and phase of the individual currents are output as voltages and are related to the subsurface electrical conductivity.

The depth of investigation of the EM method is dependent on the coil spacing and on the instrument mode of operation. For investigations at Landfill No. 5, EM data were collected with a Geonics EM-31 in the horizontal and vertical dipole modes for effective penetration depths of approximately 9 and 18 feet, respectively.

The EM-31 measures both the quadrature phase component and the inphase component of the induced magnetic field. The quadrature phase is linearly related to the ground conductivity and thus is interpretable in terms of geologic conditions. The inphase measurement is the ratio of the induced magnetic field to the primary field, and is more sensitive to buried metallic objects than the quadrature phase. It should be noted that variations in both quadrature and inphase readings from some background levels are

more diagnostic than the absolute values. Thus, individual conductivity values are not necessarily diagnostic in themselves.

Although the absolute values may not be completely diagnostic, relative variations in conductivity can indicate changes in subsurface conditions. As an example, trench materials can sometimes produce a conductivity low (depending on the trench fill properties). However, trenches that contain metallic objects such as drums generally produce a conductivity high. In some cases, the anomaly can appear as a dipole characterized by both high and low values in close proximity to each other. This occurs because the EM response can be affected by the interaction between the anomaly-producing body in the subsurface and the receiver and transmitter orientation of the instrument.

Conductivity values can be plotted and contoured to determine lateral conductivity variations or anomalies (areas where the measured conductivity varies significantly from background). Variations in the subsurface conductivity due to buried metallic materials generally produce relatively large (greater than 20 millimhos/meter) anomalies. However, these anomalies or smaller ones can be masked by the interfering effects of surface debris, buried utilities, overhead utilities and communications apparatus, or any large metal structures close to the survey area.

Interpretation of an EM contour map requires that the basic characteristics and causes of conductivity anomalies be kept in mind. Electrical conductivity is a function of the soil or rock type, the porosity and the permeability of the rock units, and the fluid and fluid constituents filling pore spaces. Most types of soil and rock are electrical insulators with low electrical conductivity. The electrical conduction that takes place in the subsurface is primarily electrolytic and occurs through the interconnected moisture-filled pores contained in the matrix. If a conductive body such as a metal drum is placed in the matrix, ion flow and conduction occurs preferentially through the metal, thus increasing the bulk conductivity. Conversely, if non-conductive materials such as unreinforced concrete are placed in the matrix, ion flow and conduction occur around the resistor, thus reducing the bulk conductivity. Therefore, landfill areas, which may have buried metallic objects, sludge, or leachate, are generally displayed as conductivity highs, while landfill or hardfill areas, which may have buried concrete, asphalt, wood, or

dry backfill soil materials, are generally displayed as conductivity lows. All these facets are superimposed on the geologic framework of the site, which can also produce varying conductivity conditions due to the variable thickness of the lithologic units.

2.2 MAGNETICS METHOD

Magnetics methods aid subsurface characterization by measuring the earth's magnetic field and local variations of the field. For environmental applications, such a survey can be used for:

- detection of buried metallic objects (borehole clearing, landfill or trench mapping); and
- reconnaissance subsurface geologic mapping.

A magnetic survey involves the measurement of the earth's magnetic field at various points on the ground surface. Variations in magnetic susceptibility of subsurface material will produce anomalies within the earth's magnetic field which can be measured with a magnetometer.

Magnetic surveys can be conducted using a variety of different types of magnetometers. For this project a proton-precession type magnetometer was used. With this kind of magnetometer, a small alternating current is passed through a current coil within the sensing chamber of the magnetometer creating a small magnetic field. Protons from the fluid within the chamber align themselves with this temporary magnetic field. When the current is turned off, the magnetic field terminates, and the protons attempt to realign themselves, or precess, about the earth's magnetic field. A small signal is generated by the precession of the protons, in the same coil used to polarize them. The signal measured is directly proportional to the total magnetic field intensity at that location. This intensity is displayed digitally on the magnetometer, and expressed in gammas or nanoTeslas.

Two types of magnetic measurements can be obtained: total field and vertical gradient. The total field intensity is simply the magnitude of the earth's magnetic field vector. The magnetic vertical gradient is a measurement of the difference in the total magnetic field

between two sensors set at different fixed heights above the ground. Total field measurements are suitable for reconnaissance surveys and gradient measurements allow resolution of composite or more complex magnetic anomalies.

Magnetics measurements are affected by several sources which interfere with the desired magnetic signal. The effects of these sources must be removed, or corrected, from the magnetics data. Diurnal variations, which are dominated by temporal magnetic variations, are primarily caused by particle and electromagnetic radiation from the sun. These variations are often monitored by either reoccupation of a base station at prescribed time intervals, or by a recording magnetic base station.

Magnetics values (or magnetic gradient values) can be plotted on a map and contoured so that variations over the site can be analyzed. Buried subsurface metal can be indicated by high magnetic values or high vertical gradients. Generally, areas with high magnetic anomalies indicate buried ferromagnetic materials. Low magnetic anomalies can indicate disturbed soils with no ferromagnetic constituents. In many cases, the magnetic anomaly will appear as a dipole characterized by both high and low magnetic values in close proximity to each other. This occurs because the amplitudes of the magnetic measurements are dependent upon the direction the survey traverse approaches the anomalous magnetic field, and upon the subsurface orientation of the anomaly-producing body. The magnetic response and resulting anomaly is proportional to the mass of the subsurface magnetic material. Typically, a single drum can be detected to a depth of 10 to 15 feet. Groups of drums can be detected at depths of 25 feet or more.

3.0
FIELD PROGRAM

3.1 LANDFILL NO. 5 GEOPHYSICAL PROGRAM

The geophysical investigations at Landfill No. 5 were designed to account for the site specific conditions. Historical records indicate that different types of waste disposal activities were conducted at Landfill No. 5. In the eastern half of the site, waste materials were reportedly buried in linear trenches. Records indicate that most of the trenches and cells within this portion of the site were oriented in a general north-south direction. However, the records also indicate that several generally east-west oriented trenches were located in relatively narrow (approximately 100 feet wide) bands across the southern and northern portions of the area. In the western portion of the site, records indicate that waste may have been disposed of in a semi-random manner over a relatively broad area, which is more typical of general landfill disposal practices.

Considering this historical information, the geophysical surveys were conducted using an asymmetrical survey grid. The data station spacing was adjusted in different portions of the site to provide optimal coverage based on the known or suspected types of waste disposal activities in a particular area. In the eastern portion of the site, data station spacings of 50 feet north-south and 15 feet east-west were used to provide resolution of the north-south oriented trenches. However, in portions of the southern and northern areas, the north-south station spacing was reduced to 25 feet to provide better resolution of the suspected east-west trending trenches. In the western portion of the site, station spacings of 50 feet north-south and 20 feet east-west were used. A geophysical station location map of the study area is shown in Figure 1.

The geophysical field work was conducted from January 19 to January 27, 1995. A base survey grid was established at the site by Lydick Engineers and Surveyors (Lydick), a local land surveying company, prior to conducting the geophysical surveys. The base grid incorporated field coordinates that were used by both the geophysical surveys as well as the soil gas survey. The field coordinate system was converted to state plane coordinates for final plotting of the geophysical maps. The base grid established by Lydick consisted

of small wooden survey stakes placed at 50 foot centers across the Landfill No. 5 site. In addition to the small stakes, larger stakes with station annotation and florescent ribbon flagging were placed at 100 foot centers across the entire site. The survey grid was established using total station optical survey techniques. Geophysical data stations intermediate to those marked by the base grid were located by making paced distance measurements along sight lines formed by the surveyor stakes.

3.2 GEOPHYSICAL FIELD INVESTIGATIONS

The geophysical investigation of Landfill No.5 was conducted using EM and magnetic methods. The EM surveys were conducted using the Geonics EM-31. Quadrature phase and inphase measurements were obtained using both the horizontal and vertical dipole modes for effective investigation depths of approximately 9 and 18 feet, respectively. Data obtained from the EM surveys were recorded using a data logger that allowed the operator to store and record station coordinate information and EM data simultaneously.

The magnetic surveys were conducted using an GEM GSM-19 portable magnetometer/ gradiometer. Magnetic total field and magnetic vertical gradient data were collected at each station. Base station data used for correcting diurnal variations in the magnetic total field data were collected using a second GEM GSM-19 magnetometer. The magnetic base station was located outside the survey grid (field coordinates North 1890 feet, East 2360 feet) in an apparently undisturbed area.

A calibration station was established for both the EM and magnetics surveys. This station, located at grid point North 2050 feet, East 2300 feet, was used to tie data from successive surveying events together and to provide a base reading for the EM inphase measurement. Prior to the start of each surveying event, generally once in the morning and once in the afternoon of each surveying day, each instrument was brought to the calibration station. Magnetic readings were recorded and compared to data collected on the first day of surveying to chart measurement accuracy. No significant variations in either the total field or gradient readings were observed over the course of the field investigation.

The EM quadrature phase readings were tracked in the same manner as described above for the magnetic readings. No significant variations in the EM quadrature phase data were observed over the course of the field investigation. However, relatively small drifting of the EM inphase readings were observed over successive calibration events. This drift was corrected for by recalibrating the inphase readings to the initial value recorded at the calibration station prior to each surveying event. This recalibration required only minor adjustments to the fine adjustment on the EM-31.

4.0
SURVEY RESULTS

Upon completion of the surveys the geophysical data were downloaded to a personal computer. The data were than formatted for input to a contouring program. Data plotting and contouring was accomplished using the computer software GEOSOFT. Inputs to the contouring program include the station coordinates and values, a selected spacing for gridding the raw data and a contour interval.

Results of the EM horizontal and vertical dipole modes for both the quadrature response and inphase response data are shown in Figures 2, 3, 4 and 5 respectively. Results for the total field magnetics and the magnetic vertical gradient are shown in Figures 6 and 7, respectively. Various cultural features were encountered at the site that are readily apparent on the geophysics data contour maps. These features included metal fencing, monitoring wells, buildings and scrap metal materials. In particular, the perimeter fence is readily apparent on both of the EM quadrature figures (Figures 2 and 4), as well as the fence that surrounds the currently capped portion (Cell No. 3) of the landfill.

In interpreting the geophysical results, the likely causative contributors to an anomaly must be considered (see methods description in Section 2.0). The magnetic total field and magnetic gradient respond primarily to buried metallic objects, although some variations in the total magnetic field will exist across the site due to variable magnetic materials within the near surface soils. Anomalies within the inphase mode of the EM measurements are also dominated by buried (or nearby) metallic objects. The EM quadrature anomalies can be due to buried metallic objects, as well as variations in soil constituents due to varying geology or the existence of buried landfill or hardfill debris materials.

Based on the quadrature results of Figures 2 and 4, the conductivity across the site varies from 0 mmhos/meter to 210 mmhos/meter. However, the highest values are seen near the perimeter fence outlining the capped Cell No. 3, as well as the perimeter fence outlining the eastern portion of the survey area. If those values affected by the fence

are disregarded, the range of values is from 0 to 90 mmhos/meter. Background appears to be approximately 10 to 20 mmhos/meter. The inphase response appears to have a background value of approximately 0, although as discussed earlier, the inphase values are relative. Anomalies observed on the EM quadrature data plot (Figures 2 and 4) appear as conductivity highs or as dipoles. On the inphase plot (Figures 3 and 5), anomalies generally appear as relative lows or as dipoles.

Total field magnetics values (Figure 6) vary from 48,000 gammas to 55,400 gammas, and a background value of approximately 51,600 gammas is apparent. The magnetic gradient (Figure 7) varies from -1,500 gammas to 2,000 gammas, and a background value near zero is indicated. Anomalies observed on the magnetic plots are generally apparent as dipole anomalies. When interpreting the dipole anomaly, the center of the causative body is generally located beneath the center of the dipole, where the gradient within the dipole is a maximum.

The geophysical contour maps appear to be consistent with the reported historical activities of the site and reported approximate trench locations shown in Figure 4-1 of the Phase I RFI Work Plan. The eastern portion of the site is dominated by north-south trending linear anomalies indicative of trenching activities. These linear anomalies are usually displayed as conductivity or magnetic highs, or as dipoles (as discussed earlier). Geophysical results also depict several east-west trending or southwest trending anomalies in the southern portion of the surveyed area. These anomalies, also likely indicative of trenching activities, are most obvious in the total-field magnetics data of Figure 6.

The correlation of geophysical anomalies with suspected trenches was accomplished by overlaying outlines of reported trench locations onto the total-field magnetics contour map (Figure 8). In many cases there was good agreement between suspected trench locations and mapped geophysical anomalies.

In the western portion of the survey area, a much more random distribution of geophysical anomalies exists, with few discernable linear trends. This finding supports historical reports that landfill materials were likely deposited in this area using a semi-

random landfill disposal operation (i.e., filling of natural depressions), rather than using a trenching disposal method.

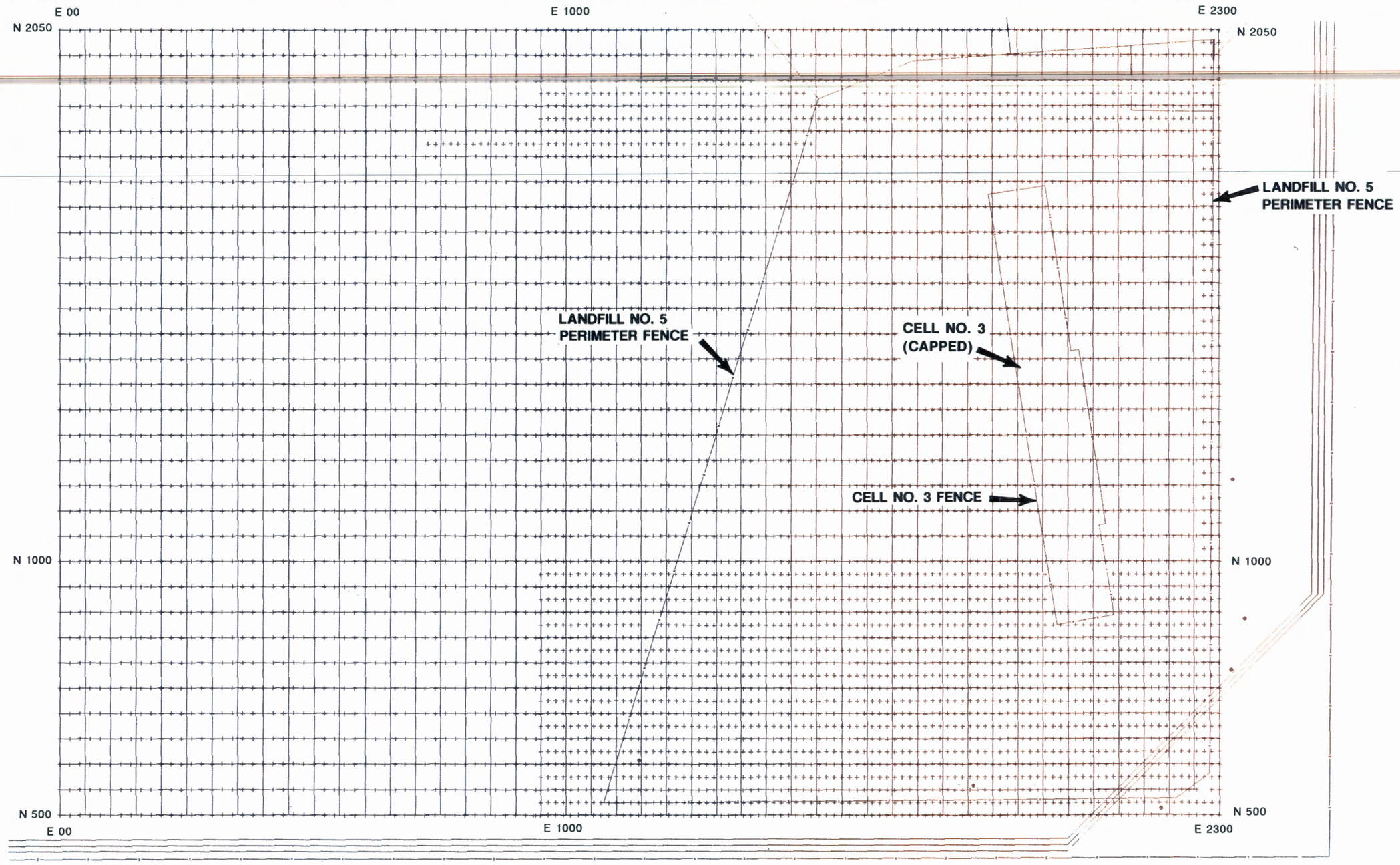
Geophysical results were used to help optimize soil gas sampling locations across Landfill No. 5. The geophysical information also provided a better estimation of individual trench locations, to facilitate borehole drilling and sampling directly within waste materials.

5.0
SUMMARY

Geophysical investigations were conducted at Landfill No. 5 (SWMU No. 113/IRP No. LF-5) at Cannon Air Force Base in New Mexico. Electromagnetic and magnetics surveys were conducted to better define the location of suspected landfill operations in the area. The geophysical results clearly indicate areas of both trenching activities in the eastern portion of Landfill No. 5, as well as general landfill operations in the western portion of the site. Geophysical results were used to optimize soil gas sampling locations and assist in locating boreholes for soil sample collection.

5.1 LIMITATIONS

This work was conducted in accordance with reasonable and accepted engineering geophysics practices, and the interpretations and conclusions are rendered in a manner consistent with other consultants in our profession. However, all geophysical techniques have some level of uncertainty and limitations. No other representation to the client is expressed or implied, and no warranty or guarantee in included or intended.



LEGEND

- MONITORING WELL
- GEOPHYSICAL STATION
- APPROXIMATE LOCATION OF ROAD
- FENCE

0 100 200 400
SCALE IN FEET

N 500, E 00 – FIELD GRID COORDINATE

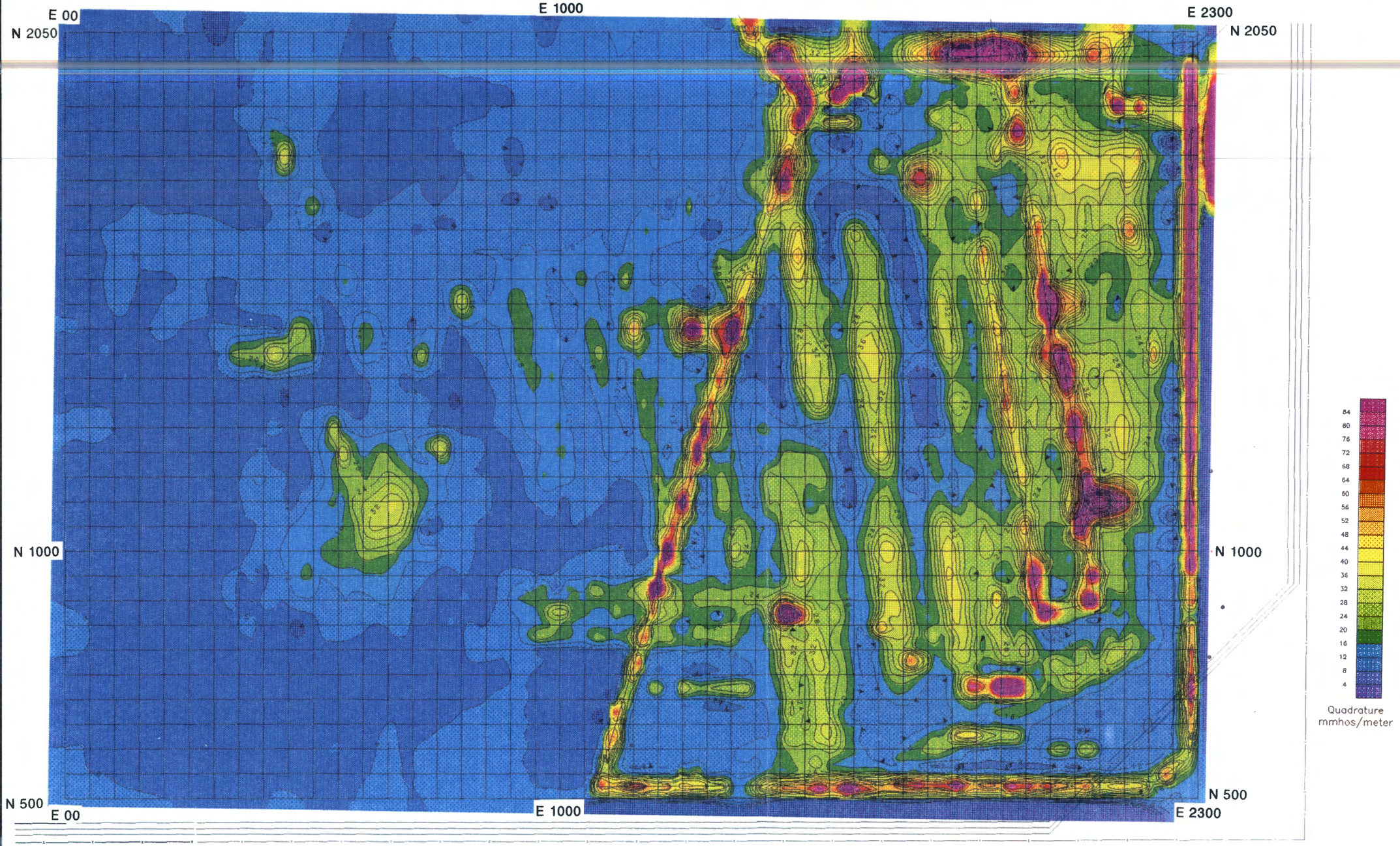
Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	3/27/95

GEOPHYSICAL STATION LOCATION MAP

LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

FIG. 1

T2C7



0 100 200 400

SCALE IN FEET

CONTOUR INTERVAL = 4mmhos/meter

LEGEND

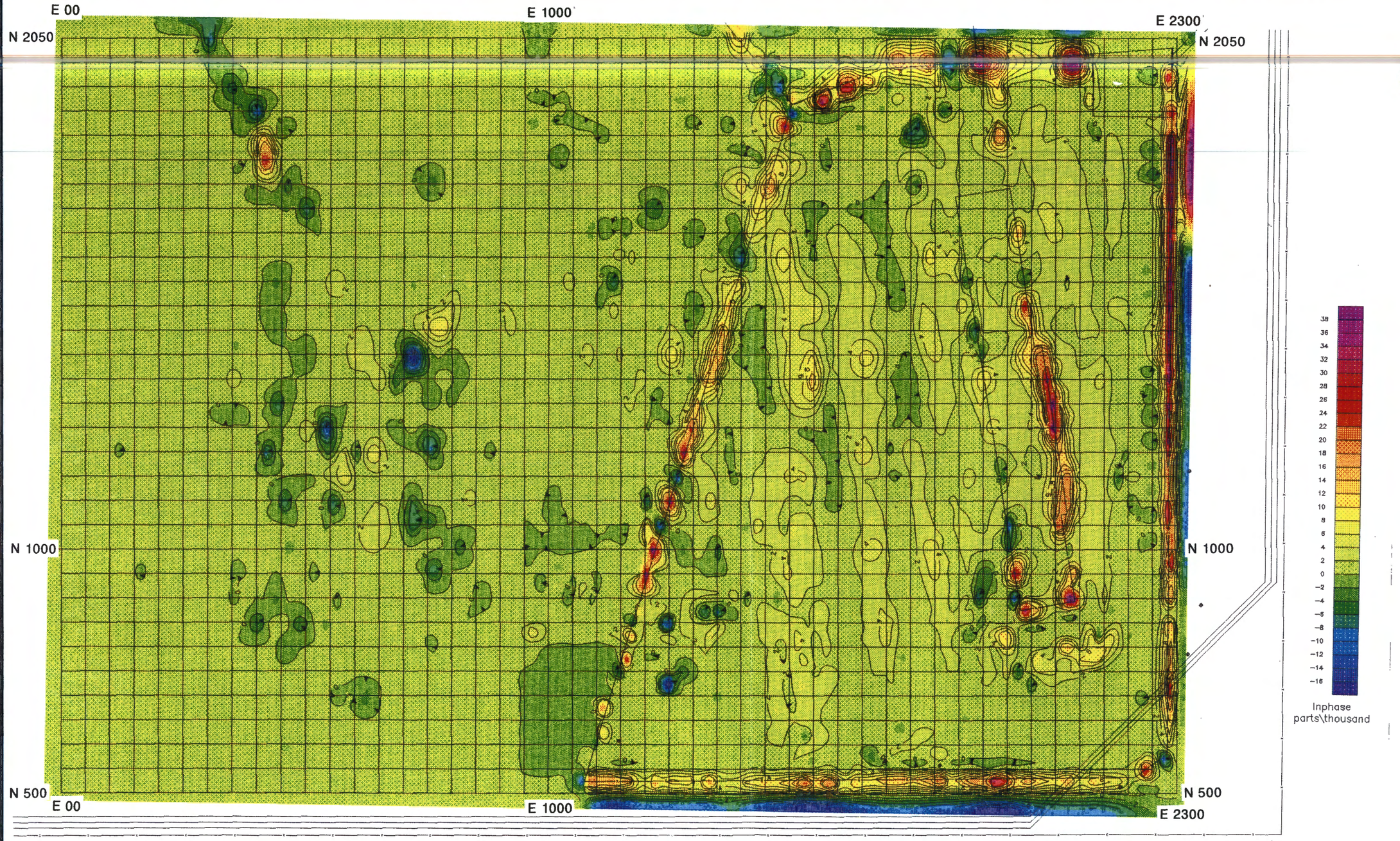
- MONITORING WELL
- APPROXIMATE LOCATION OF ROAD
- FENCE

Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	3/27/95

ELECTROMAGNETIC CONTOUR MAP
HORIZONTAL DIPOLE MODE
QUADRATURE RESPONSE
LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

FIG. 2

T2C3



0 100 200 400

SCALE IN FEET

CONTOUR INTERVAL = 2 parts/thousand

LEGEND

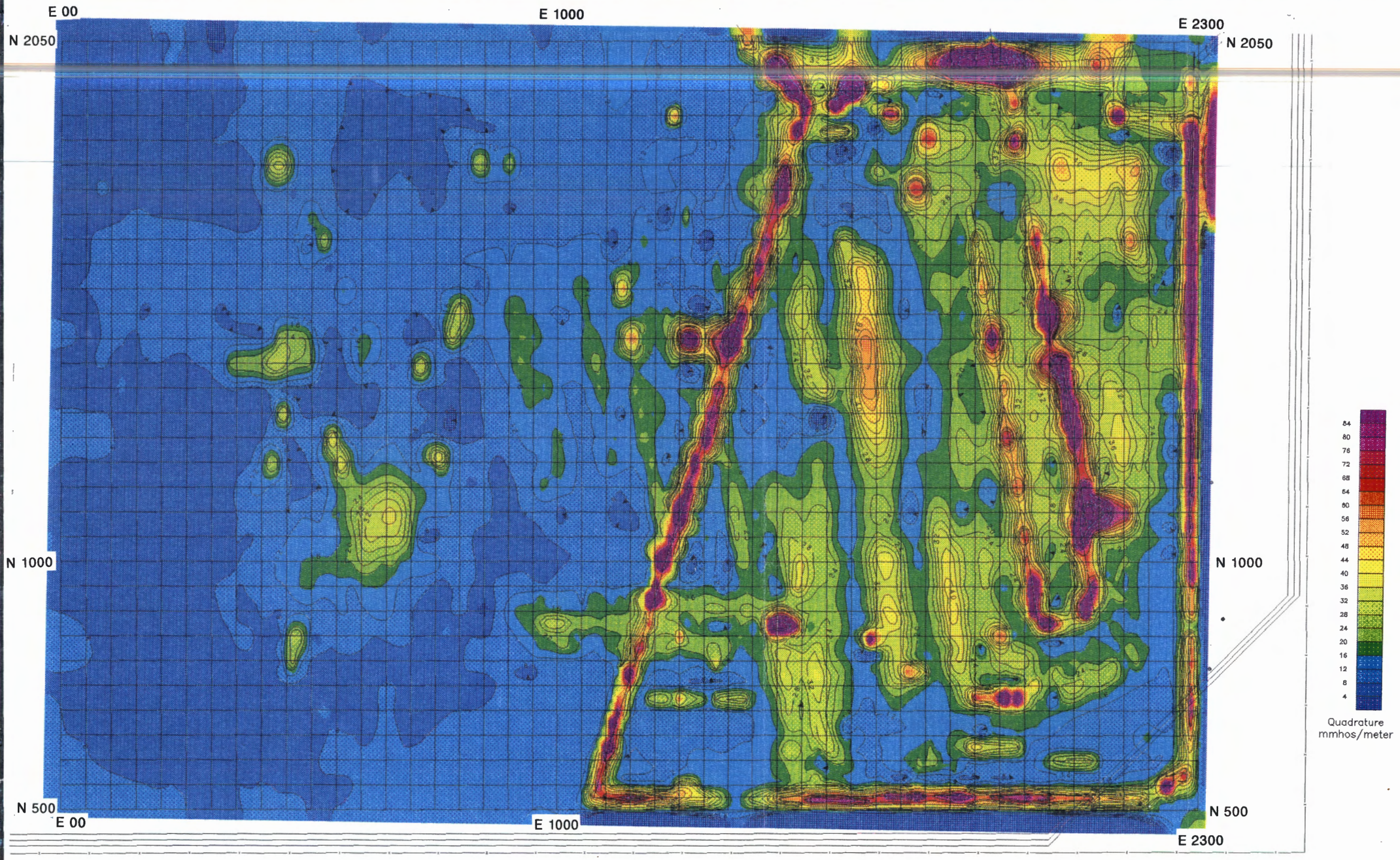
- MONITORING WELL
- APPROXIMATE LOCATION OF ROAD
- FENCE

Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	3/27/95

ELECTROMAGNETIC CONTOUR MAP
HORIZONTAL DIPOLE MODE
INPHASE RESPONSE
LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

FIG. 3

T2C4



0 100 200 400

SCALE IN FEET

CONTOUR INTERVAL = 4mmhos/meter

LEGEND

- MONITORING WELL
- APPROXIMATE LOCATION OF ROAD
- FENCE

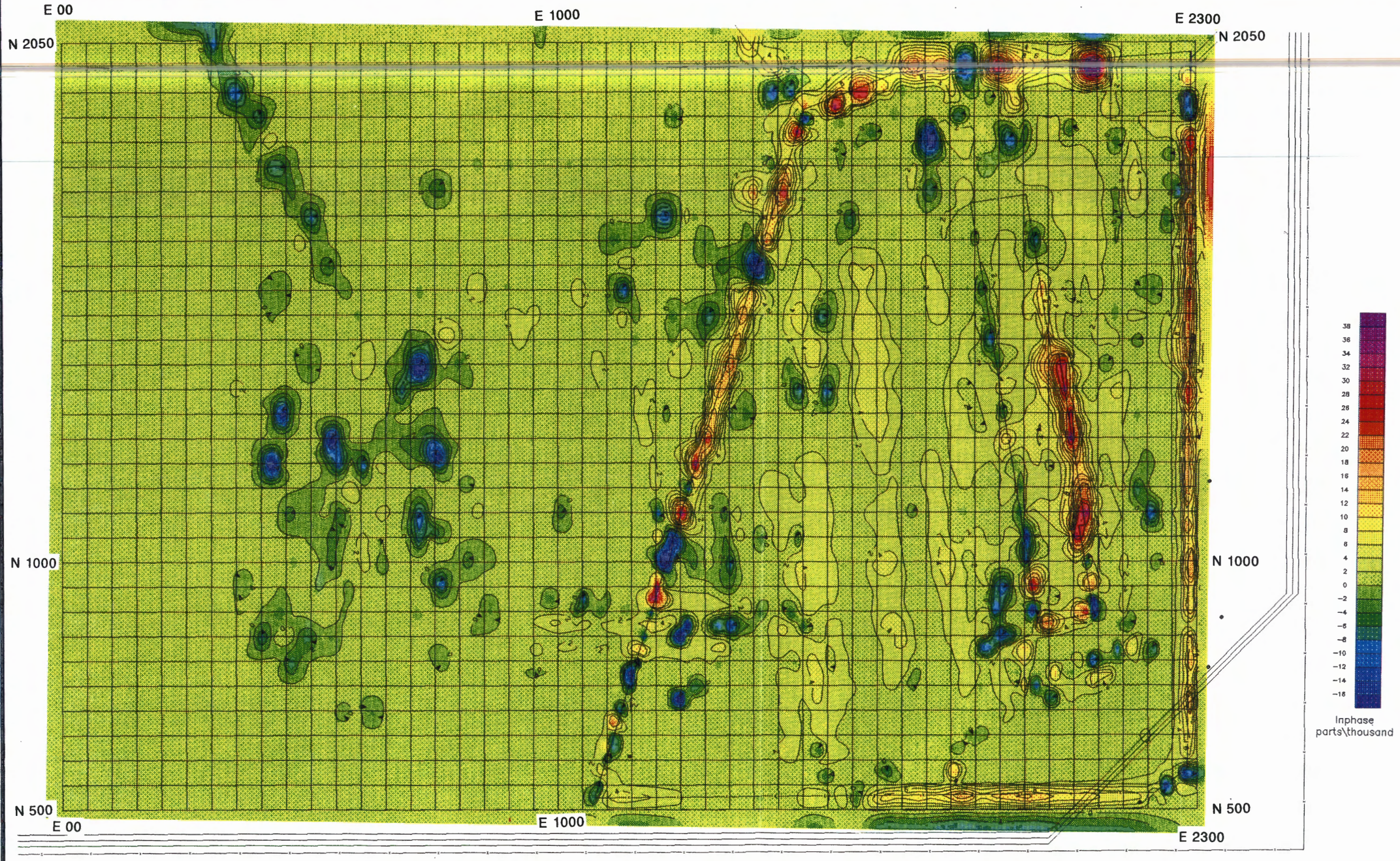
Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	3/27/95

ELECTROMAGNETIC CONTOUR MAP
VERTICAL DIPOLE MODE
QUADRATURE RESPONSE

LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

T2C1

FIG. 4



0 100 200 400

SCALE IN FEET

CONTOUR INTERVAL = 2 parts/thousand

LEGEND

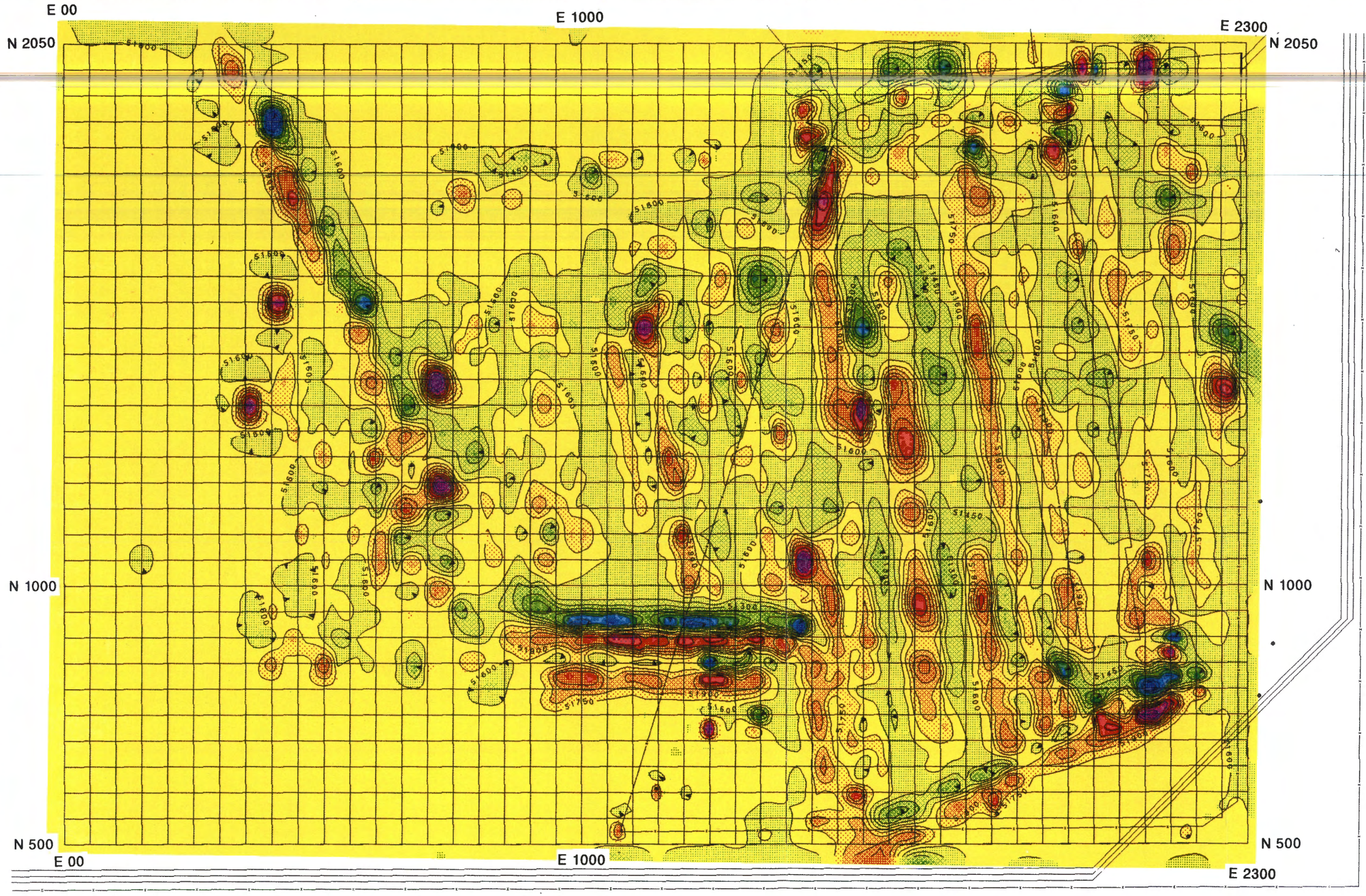
- MONITORING WELL
- APPROXIMATE LOCATION OF ROAD
- FENCE

Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	3/27/95

ELECTROMAGNETIC CONTOUR MAP
VERTICAL DIPOLE MODE
INPHASE RESPONSE
LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

FIG. 5

T2C2



0 100 200 400

SCALE IN FEET

CONTOUR INTERVAL = 150 gammas

LEGEND

- MONITORING WELL
- APPROXIMATE LOCATION OF ROAD
- FENCE

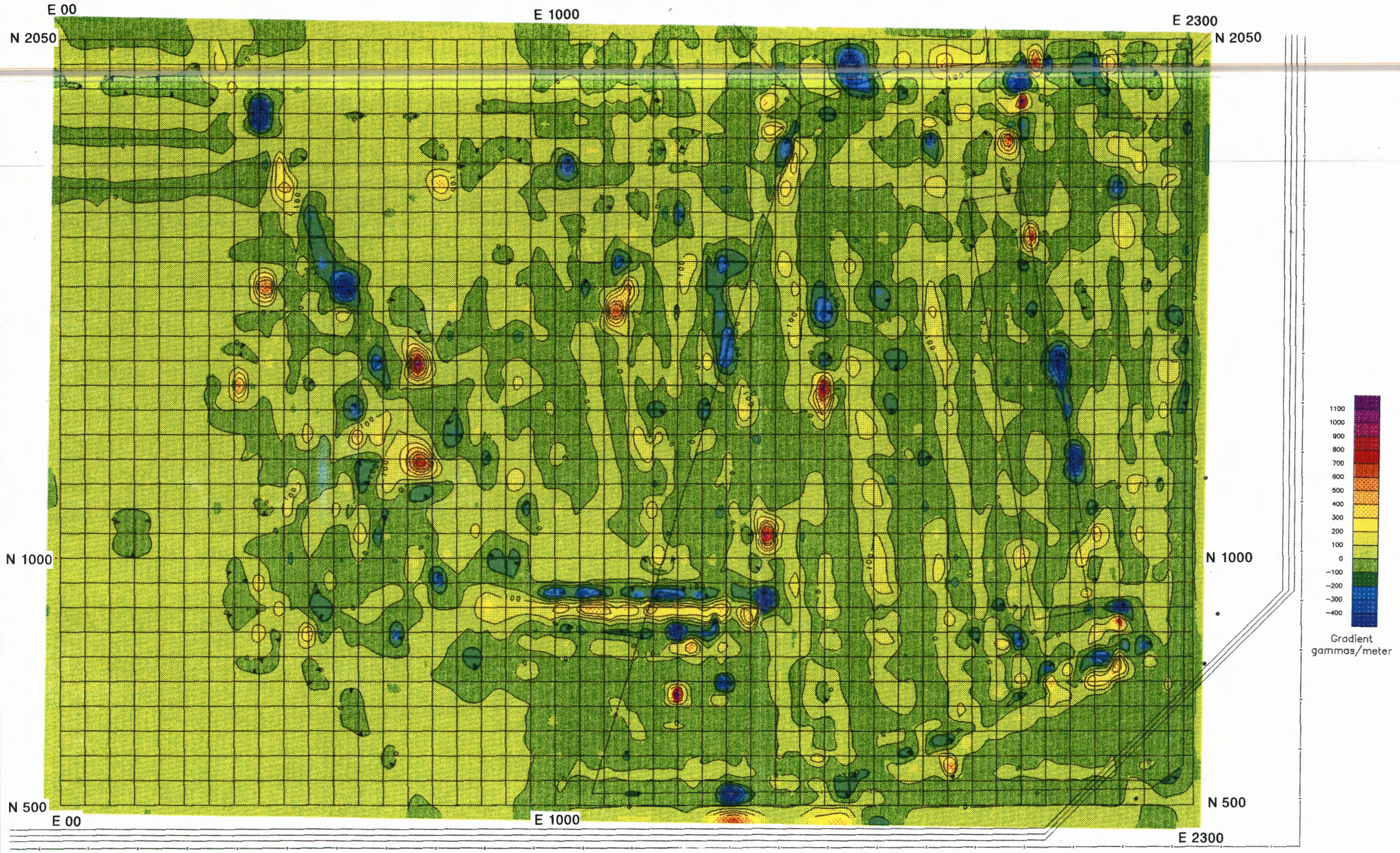
Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	3/27/95

MAGNETICS CONTOUR MAP
TOTAL FIELD DATA

LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

T2C5

FIG. 6



0 100 200 400

SCALE IN FEET

CONTOUR INTERVAL = 100 gammas/meter

LEGEND

- MONITORING WELL
- APPROXIMATE LOCATION OF ROAD
- FENCE

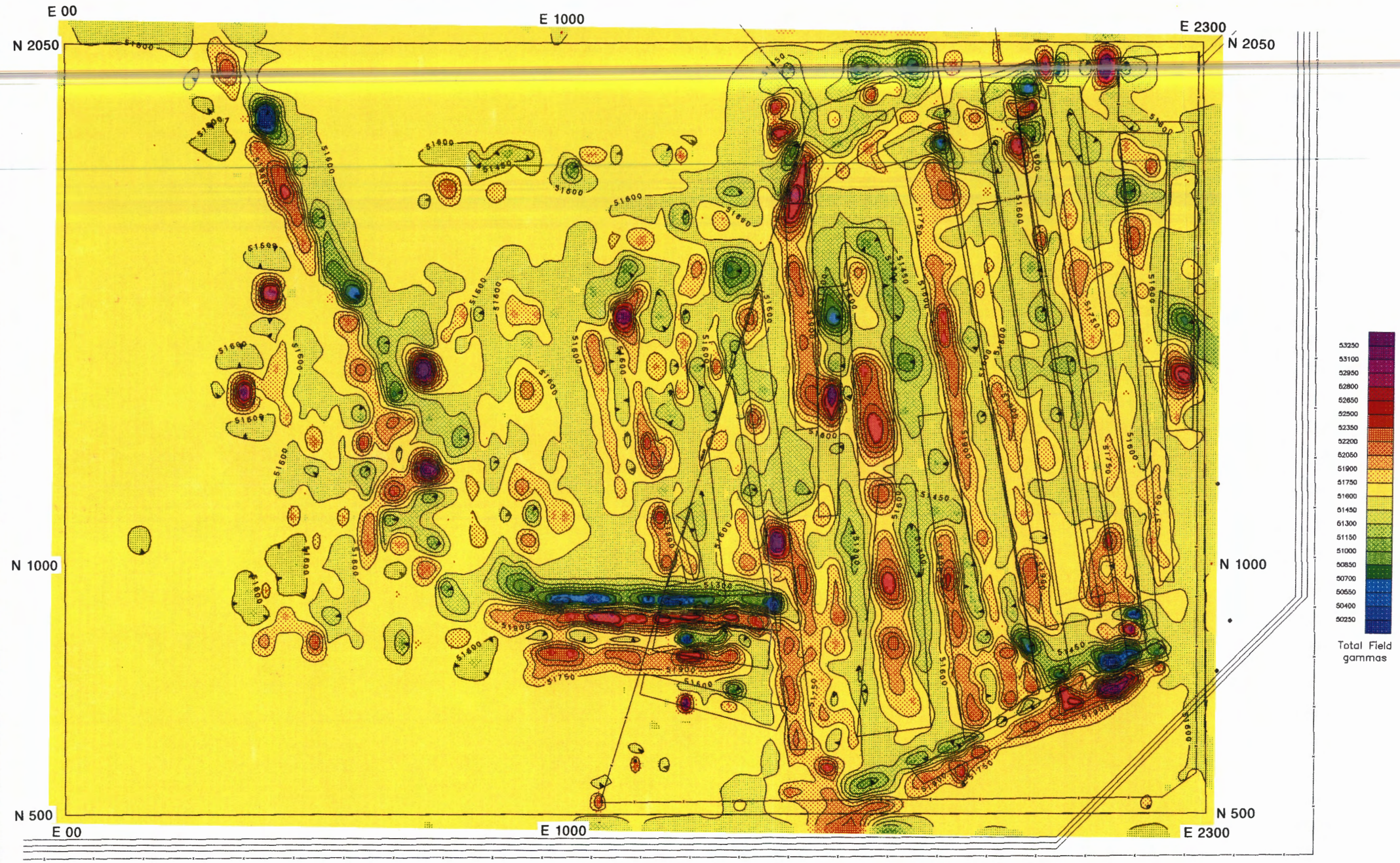
Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	3/27/95

MAGNETICS CONTOUR MAP
GRADIENT RESPONSE

LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

T2C6

FIG. 7



0 100 200 400

SCALE IN FEET

CONTOUR INTERVAL = 150 gammas

LEGEND

- MONITORING WELL
- APPROXIMATE LOCATION OF ROAD
- FENCE

Job No. :	C3M11M
Prepared by :	J.J.N.
Date :	4/03/95

COMPARISON OF TOTAL MAGNETIC FIELD RESULTS TO REPORTED TRENCH LOCATIONS

LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
CANNON AFB, NEW MEXICO

T2C8

FIG. 8

APPENDIX C
SOIL GAS SURVEY TECHNICAL REPORT

PHASE I RCRA FACILITY INVESTIGATION REPORT
LANDFILL NO. 5
SWMU NO. 113/IRP NO. LF-5

APPENDIX C
SOIL GAS SURVEY TECHNICAL REPORT

PROJECT CZQZ 92 7007
CANNON AIR FORCE BASE, NEW MEXICO

DECEMBER 1995

Prepared For

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C3M11M (2B)

TABLE OF CONTENTS

Section		Page
1.0	INTRODUCTION	1
1.1	PURPOSE AND SCOPE	2
1.2	SAMPLE LOCATION RATIONALE	3
1.2.1	Field PID Screening Locations	3
1.2.2	GC Sample Locations	4
2.0	SOIL GAS SURVEY METHODOLOGY	5
2.1	SOIL GAS SAMPLE COLLECTION PROCEDURE	5
2.2	FIELD PID ANALYSES	7
2.3	MOBILE GC LABORATORY ANALYSES	7
2.4	DOCUMENTATION	8
2.5	DECONTAMINATION	9
3.0	QUALITY ASSURANCE/QUALITY CONTROL	11
3.1	FIELD QA/QC MEASUREMENTS	11
3.1.1	Introduction	11
3.1.2	Probe Blank Measurements	11
3.1.3	Field Duplicates: Temporal and Spatial	12
3.2	PID SAMPLE ANALYSES	14
3.2.1	PID Calibration	15
3.2.2	Calibration Check Recoveries	15
3.2.3	Limit of Quantitation Determination	16
3.2.4	Ambient Air Measurements	18
3.2.5	PID Sample Measurement Procedures	19
3.3	MOBILE LABORATORY GC SAMPLE ANALYSES	20
3.3.1	Introduction	20
3.3.2	Three-Point Initial Calibration	20
3.3.3	Single-Point Continuing Calibration	21
3.3.4	Method Blank Analysis	21
3.3.5	Surrogate Compound	22

Section Page

3.3.6 Ambient Air Analysis 22
3.3.7 Holding Time Studies 23

4.0 PRESENTATION OF RESULTS 25

4.1 FIELD PID SCREENING RESULTS 25
4.2 MOBILE LABORATORY GC ANALYSIS 26
4.3 COMPARISON OF FIELD PID SCREENING AND MOBILE GC ANALYSIS 28

5.0 CONCLUSIONS 30

5.1 FIELD PID SCREENING ANALYSIS 30
5.2 MOBILE LABORATORY GC ANALYSIS 31
5.3 CONSIDERATIONS FOR SELECTING SOIL BORING LOCATIONS 33

6.0 LIMITATIONS 36

LIST OF TABLES

TABLE 3-1	SOIL GAS SURVEY FIELD PID PROBE BLANK RESULTS
TABLE 3-2	SOIL GAS SURVEY FIELD PID TEMPORAL DUPLICATE RESULTS
TABLE 3-3	SOIL GAS SURVEY FIELD PID SPATIAL DUPLICATE RESULTS
TABLE 3-4	SOIL GAS SURVEY GC TEMPORAL AND SPATIAL DUPLICATE RESULTS
TABLE 4-1	SOIL GAS SURVEY FIELD PID RESULTS
TABLE 4-2	SOIL GAS SURVEY GC SAMPLE RESULTS SUMMARY

LIST OF FIGURES/DRAWINGS

FIGURE 1	SOIL GAS SAMPLE LOCATION MAP
DRAWING 2	SOIL GAS SURVEY FIELD PID RESULTS
DRAWING 3	SOIL GAS SURVEY MOBILE LABORATORY GC RESULTS
DRAWING 4	COMPARISON SOIL GAS SURVEY FIELD PID RESULTS TO GEOPHYSICAL SURVEY TOTAL FIELD MAGNETICS RESULTS

LIST OF ATTACHMENTS

ATTACHMENT A GC ANALYSIS SAMPLE RESULTS

1.0
INTRODUCTION

This report summarizes the activities and results of the soil gas investigation performed at Landfill No. 5 (SWMU No. 113/IRP No. LF-5) located on Cannon Air Force Base (Cannon AFB), Clovis, New Mexico. The soil gas investigation was performed by Woodward-Clyde (W-C) from 21 February to 09 March, 1995 in accordance with the Phase I RFI Work Plan for Landfill No. 5 (W-C 1995), approved by the New Mexico Environment Department (NMED) on September 28, 1994. Soil gas sampling and analysis conformed with Standard Operating Procedure (SOP) No. 1 - "Soil Gas Surveys and Field Gas Chromatograph Operation" contained within the Data Collection Quality Assurance Plan (DCQAP) for the Phase I RFI Work Plan for Landfill No. 5.

Prior to performing the soil gas survey, W-C subcontracted Lydick Engineers and Surveyors (Lydick), a local land surveying company, to establish a field grid over the entire Landfill No. 5 site. The grid established at Landfill No. 5 measured 2,300 feet in the east-west direction and 2,050 feet in the north-south direction. The field grid established by Lydick was consistent with the planned grid shown on Figure 4-1 in the Phase I RFI Work Plan for Landfill No. 5. The grid consisted of wooden survey stakes placed at 50 foot centers across the Landfill No. 5 site. In addition to the wooden stakes, survey lathe annotated with field grid coordinates and marked with florescent ribbon, flagging were placed at 100 foot centers across the Landfill No. 5 site. The field grid coordinates are shown on the upper X-axis and left Y-axis of the grid shown in Figure 1.

For the soil gas survey, a simplified alpha-numeric grid node identification system was developed to easily identify soil gas sample locations. The grid node identification used numbered north-south grid lines (east-west direction), and letters to identify the east-west grid lines (north-south direction). The grid node identification system is shown on the lower X-axis and right Y-axis of the grid shown in Figure 1. During the soil gas survey, soil gas sample locations were identified by both the grid node identifier and the field grid coordinates. The coordinates are also referenced to the State Plane coordinate

system as surveyed for the topographic mapping performed under a separate task for the Landfill No. 5 Phase I RFI.

After the field grid was established, W-C performed electromagnetic and magnetics geophysical surveys at Landfill No. 5. Results of the geophysical surveys appeared to confirm historical reports that trenching activities associated with landfill operations likely occurred in the eastern portion of Landfill No. 5, and general landfill operations (disposal of construction debris) occurred in the western portion of the Landfill No. 5 site. Results of the geophysical surveys were also used to select soil gas sampling locations as discussed in Section 1.2 of this Appendix. A detailed discussion of the geophysical survey and results is presented in a separate Appendix.

1.1 PURPOSE AND SCOPE

The purpose of performing the soil gas investigation was to identify areas of elevated concentrations of volatile organic compounds (VOC) in the soil gas at Landfill No. 5. Results of the soil gas survey were used along with the geophysical survey information to assist in identifying soil boring locations for the collection of soil samples for chemical analyses.

The soil gas survey was performed as a two phase investigation at the Landfill No. 5 site following completion of the geophysical survey. The first phase of the soil gas survey consisted of collecting and field screening soil gas samples at 800 locations. Soil gas samples were field screened for the presence of VOCs using a field photoionization detector (PID). Following preliminary (field) interpretation of the first phase of soil gas results, approximately ten (10) percent of the first phase soil gas sample locations were re-sampled and analyzed for VOCs specified in EPA Methods 8010 and 8020 by using Gas Chromatography (GC) in a mobile laboratory. The soil gas GC analytical results were used to identify specific VOCs potentially present in soil gas at Landfill No. 5.

A majority of the soil gas survey samples were collected in the eastern two-thirds of Landfill No. 5 in the area of reported historic landfill trenching operations. The western one-third of the landfill site was investigated using fewer soil gas sample locations, since this area reportedly received only construction debris and rubble. Soil gas samples were

collected at 50 foot grid nodes within the eastern portion of the landfill site and focused in areas where trenching reportedly occurred and/or where anomalies were identified during the geophysical surveys. In areas where the 50 foot grid was not considered to provide sufficient sample coverage, supplemental soil gas sample locations were selected. In the western portion of the landfill area, soil gas sample locations focused primarily in the playa lake area and geophysical survey anomalies. In the playa lake area, soil gas screening samples were collected at 100 foot grid nodes, and supplemental soil gas sample locations were sampled to evaluate geophysical anomalies. The soil gas survey sampling locations are shown in Figure 1.

1.2 SAMPLE LOCATION RATIONALE

1.2.1 Field PID Screening Locations

After completion of the geophysical investigation, preliminary maps of the magnetics and electromagnetics results were reviewed and compared to the reported locations of landfill trenches shown in Figure 4-1 in the Phase I RFI Work Plan for Landfill No. 5. Geophysical anomalies and the boundaries of reported landfill trenches were overlain on the 50 foot grid map. Based on this information soil gas screening sample locations for the first phase of the soil gas survey were selected to provide adequate coverage using the established 50-foot grid.

This approach resulted in sampling 754 soil gas sample locations in the eastern portion of Landfill No. 5. Of the total number of soil gas sample locations in this area, 664 soil gas sample points were located on 50 foot grid nodes. An additional 90 soil gas sample locations were designated as supplemental sample locations to further evaluate reported trench locations and geophysical anomalies.

In the western portion of the landfill area, the soil gas survey screening focused on the playa lake area. A total of 52 soil gas sample locations were selected, 38 located on a 100-foot grid over the playa lake area, and 14 supplemental soil gas sample locations were identified to evaluate geophysical anomalies.

In addition, 6 soil gas sample locations were selected as "background" sample locations near the western-most edge of the landfill site, outside of suspected landfill activities. Soil gas samples could not be collected at four locations due to probe refusal or subsurface conditions which prevented the collection of soil gas (i.e., excess moisture). A total of 808 soil gas survey locations, inclusive of background locations were sampled and analyzed using field PID screening during the first phase (Figure 1).

1.2.2 GC Sample Locations

A soil gas survey plan map was updated on a daily basis with the first phase soil gas survey results. Following completion of the first phase and evaluation of results, 80 sample locations for the second phase were identified for sampling and analysis using the mobile laboratory GC. These locations were selected based on the concentration of total VOCs as recorded by the field PID and the location of the soil gas sample in relation to a mapped landfill trench location and/or the presence of a geophysical anomaly. Soil gas samples could not be collected at two locations due to probe refusal. A total of 78 soil gas samples for GC analysis were collected and analyzed. A majority of the GC samples were collected in the eastern portion of the Landfill No. 5 site (Figure 1).

2.1 SOIL GAS SAMPLE COLLECTION PROCEDURE

Soil gas samples were collected in accordance with SOP No. 1 - "Soil Gas Surveys and Field Gas Chromatograph Operation." Minor modifications to the SOP were made as a result of conditions observed during the soil gas survey and these are noted in the following discussion. As detailed below, similar sample collection procedures were used for the field PID soil gas screening survey and the collection of samples for GC analysis. Three Geoprobe hydraulic probe-type sampling systems were used to collect soil gas samples from 5 to 10 feet below ground surface. The Geoprobe units were either all-terrain vehicle (ATV) or truck mounted. The Geoprobe sampling system uses the static weight of the carrier vehicle and the rapid hammer action (1,500 blows per minute) to drive one-inch diameter soil gas sampling probes into the soil. Required sampling depths were reached by adding successive three-foot extensions of one-inch diameter, flush-threaded probe rod.

The soil gas sampling probe was driven to a target depth of 10 feet below ground surface, or to probe refusal, at each location. If probe refusal occurred before 10 feet, but was below 5 feet, the depth was recorded and the soil gas sampling was performed at this depth. At locations where probe refusal occurred above 5 feet, the probe was removed and a second attempt to achieve greater than 5 feet penetration was made within approximately 5 feet of the original location. The positions of the relocations were recorded in the field log book. If penetration greater than 4 feet could not be achieved in two attempts, the location was abandoned. Four locations, S27, T27, U27 and V27, were situated on a distinct mound of approximately five feet height above the surrounding area. At these locations the probe was driven to 14.5 feet below ground surface, thereby collecting soil gas samples at a similar elevation relative to adjacent soil gas locations.

Once the sampling depth was achieved, the probe rod was retracted 4 to 8 inches to open the closed end of the soil gas drive point, thereby exposing the interior of the

probe to the soil. A stainless steel adapter was attached to the bottom of a 13 foot length of 1/4" O.D. polyethylene tubing and a fitted septum was attached to the top. The tubing and adaptor were inserted into the probe rod, and threaded into the Post Run Tubing (PRT) soil gas tool at the bottom of the probe rod.

Prior to collection of either the field PID or GC soil gas sample, four 60cc syringe volumes were withdrawn to flush the system with the in-situ soil gases. This volume was equivalent to three times the total dead volume of the probe and disposable tubing (i.e., the entire sampling apparatus). The volume of the sampling apparatus was calculated prior to commencing the survey. Successive withdrawals of soil gas with the syringe were used to achieve the needed volume. The syringe plunger was allowed to equalize with atmospheric pressure before removing the syringe and expelling the purged gas. If the syringe plunger did not equalize at a full volume within 2 minutes, it was assumed that the soil was too impermeable or water-saturated to give up soil gas, or the point had not opened on the tool. In these instances, the probe was retracted another 4 to 8 inches and another attempt to purge the tubing was made. If this was not successful, the hole was relocated for a second attempt as described above. The reason for relocation was recorded in the field log book.

For the collection of the samples for GC analysis, a surrogate, 1-Chloro-2-fluorobenzene, was injected into the interior of the retractable point, soil gas tool prior to driving the probe. Soil gas samples for the field PID analysis were collected in 60cc plastic syringes and soil gas samples for the GC analyses were collected in 5cc glass/teflon, gas-tight syringes.

After obtaining the required soil gas samples (primary sample and required QC samples), the tubing was pulled out leaving the stainless steel adapter attached to the soil gas tool. The probe rods were then retrieved along with the soil gas tool. The o-ring seal with the PRT soil gas point was inspected to ensure that a seal was made and no gas was withdrawn from within the probe rods. If the o-ring seal appeared inadequate, the sample was rejected and the position was relocated and a new sample collected. The reason for relocation was recorded in the field log book. The entire PRT soil gas point assembly and adaptor was decontaminated and the tubing replaced between soil gas sample locations.

The soil gas sampling equipment was purged with ambient air, but was not purged with "organic-free" air prior to driving the probes because volatile organics were not typically present in the ambient air measurements taken during the soil gas survey. During the occasional periods when low concentrations were reported in the ambient air, the readings were below the Limit of Quantitation (LOQ) established for the PID field instruments. Therefore, the ambient air was not considered to be a potential source of contamination.

2.2 FIELD PID ANALYSES

The field PID soil gas screening survey consisted of field PID measurements at 808 sample locations. The PID instruments used were Mini RAE PID Model PGM-75, configured in accordance with the Operational and Maintenance Manual provided by the manufacturer in survey mode. The soil gas sample collection procedures are described in the preceding section.

Once the soil gas sample was collected in a syringe, the syringe needle was placed into polyethylene tubing attached to the orifice of the field PID to provide a snug fit. The "Enter" button was then pressed on the field PID to commence the datalogger function, and the plunger on the syringe was evenly pushed to purge the soil contents of the syringe over an approximate 6-second period. The maximum reading on the PID was noted and recorded. The documentation procedures are discussed in Section 2.4. The QA/QC procedures associated with the field PID survey are discussed in Sections 3.1 and 3.2

2.3 MOBILE GC LABORATORY ANALYSES

Analytical methods were performed in accordance with SOP No. 1 - "Soil Gas Surveys and Field Gas Chromatograph Operation." The calibration and QA/QC procedures which were followed are discussed in Sections 3.1 and 3.3. Ninety-six samples, including QC samples were submitted to the mobile GC laboratory for analysis. The analyses were performed on a gas chromatograph using a 10.0 eV PID and a Hall electrolytic conductivity (HECD) detector. These detectors were chosen for their ability to respond to the target list of analytes for Methods 8010 and 8020, Test Methods for Evaluating

Solid Waste, Physical/Chemical Methods (USEPA, SW-846, Third Edition and Final Update I).

The gas chromatographs in the mobile laboratory were interfaced to a 486 computer with 8 Mb of RAM running the LabQuest Data System. Data were acquired on separate channels for each detector: Channel A for the HECD and Channel B for the PID. The gas chromatographs and data acquisition system were powered through electrical lines which were segregated from other electrical devices in the mobile laboratory.

Soil gas samples were collected in the field using glass/teflon, gas-tight syringes. The syringes was used to temporarily store the sample prior to injection into the GC. Following injection of the sample into the GC, the syringes were disassembled and decontaminated by heating in an oven for re-use.

2.4 DOCUMENTATION

During the field PID soil gas screening survey, W-C personnel accompanying a Geoprobe field crew maintained a field log book, recording the following information:

- Date
- Field grid coordinates and soil gas sample location
- Time of sample measurement
- Depth of sample collection
- PID sample reading and PID record datalogger sequence number
- Field QC information (for example collection of probe blanks, temporal blanks and spatial duplicates)
- PID instrument calibration information
- Additional pertinent information (for example ambient air readings, comments on sampling, etc.)
- Combustible Gas Indicator (CGI) readings

A separate log sheet was maintained summarizing the above information. The purpose of the log was to facilitate the management of the data and was used at the end of each

day in reviewing the day's activities and to transfer the results to the soil gas survey map. The survey map summarized the progress of the survey. This map was also used as the basis for planning the following day's activities, and was one of the principal sources referenced during the selection of the locations for GC analysis.

Field PID measurements were also concurrently recorded onto the PID instrument datalogger. These data were downloaded at the end of each day onto diskettes, to be used as back-up information in the event that the hard copy of the survey results were lost or required further verification.

To meet Health and Safety requirements, CGI readings were taken at a frequency of approximately 1 per 5 locations as the probes were either being driven into the ground or immediately following extraction. No readings were recorded that exceeded the Health and Safety action limits, and no action based on these CGI readings was necessary.

During the collection of samples for GC analysis, W-C personnel maintained a field log recording the same information as listed above, with the exception that no field PID readings were taken. The analytical chemist in the mobile GC laboratory maintained a log of the analytical activities, which included a run-log for the sample analyses, calibration and QC data, and other pertinent information, such as problems encountered. Analytical raw data and preliminary analytical results were available for review during the GC analytical program.

The Geoprobe crews maintained a separate field log during the field PID survey and collection of samples for GC analysis which recorded only information associated with the location and Geoprobe activities.

2.5 DECONTAMINATION

Soil gas sampling equipment which came in contact with soil gas was decontaminated or replaced between each sampling location in accordance with SOP No. 4 - "Decontamination Procedures." Equipment requiring decontamination included the soil gas tool (PRT retractable soil gas point) and the stainless steel tubing adapter.

Equipment was decontaminated by initially performing a gross decontamination to remove soil particles and then washing with Alconox and water. The equipment was then rinsed twice with de-ionized water. The polyethylene tubing was replaced after each soil gas sample event to minimize the potential for crossover contamination.

Field PID 60cc sample syringes were purged 5 times with ambient air between each sample collection, and syringes were discarded following readings that exceeded 20ppm. Following injection of the sample into the GC, the glass/teflon gas-tight syringes used for collection of the soil gas samples were dismantled and heated in an oven at temperatures exceeding 100 degrees celsius to volatize organic compounds remaining attached to syringe components.

3.1 FIELD QA/QC MEASUREMENTS

3.1.1 Introduction

Probe blanks and temporal and spatial duplicates, field quality assurance/quality control (QA/QC) samples, were collected throughout the survey for both the field PID screening and GC analysis. Probe blanks were collected and analyzed to evaluate whether the decontamination procedures were adequate; temporal field duplicates provided an indication of analytical precision and also potential ambient air contamination; and spatial duplicates provided a measure of the representativeness of the samples collected to the area of collection. These QA/QC sample types are discussed below.

3.1.2 Probe Blank Measurements

Collection of probe blanks was performed in accordance with SOP No.1 - "Soil Gas Surveys and Field Gas Chromatograph Operation." Probe blank measurements were collected at a frequency of approximately 1 per 20 during the field PID survey. One probe blank was collected and analyzed by the GC. Selection of probe blank locations ranged from locations of low or zero PID readings to the locations where higher VOC concentrations were measured. The probe blanks were measured following equipment decontamination by performing the soil gas sampling technique with the probe tip in ambient air rather than in the soil. This procedure allowed evaluation of the adequacy of the decontamination procedures prior to collecting the next sample.

Forty probe blanks were collected and analyzed during the field PID soil gas screening investigation, these results are shown on Table 3-1. All the screening probe blank results were reported as non-detects at the LOQ indicating that the decontamination procedures performed during the investigation were satisfactory, and no cross contamination from sampling equipment was identified.

No target analytes were reported as detected in the probe blank analyzed by the GC, further demonstrating that the decontamination procedures were satisfactory. The GC probe blank result is included in Attachment A - GC Analysis Sample Results.

3.1.3 Field Duplicates: Temporal and Spatial

Two types of field duplicate samples were collected during the survey:

a. Temporal field duplicates (duplicate soil gas samples collected at differing times at the designated sample location)

b. Spatial field duplicates (a soil gas sample collected approximately 3 feet from the designated soil gas sample location)

Temporal field duplicates provided an indication of analytical precision and also potential ambient air contamination. If air was being drawn along the side of the probe during sample collection, then it would be expected that successive samples drawn from the probe would have successively lower readings. Temporal duplicates were collected within approximately five minutes of the field sample by collecting a second soil gas sample from the same soil gas probe.

Spatial field duplicates provided an indication of the representativeness of the results to the area of soil being sampled. To collect the spatial duplicates, the soil gas probes were extracted from the ground, and the location of the Geoprobe rig was moved approximately 3 feet. This second location was then sampled, using decontaminated equipment, immediately following collection of the sample from the primary field location. With one exception, spatial duplicate samples were collected within approximately 30 minutes of the initial field sample. The one exception was the collection of spatial duplicate samples for GC analysis at location J40, which was sampled and analyzed on 03/06/95 and 03/08/95.

During the field PID soil gas screening investigation, 63 temporal duplicate samples were collected and measured. An evaluation of the temporal duplicate measurements is shown on Table 3-2. Since a minor difference in results with values near the instruments

quantitation limit will result in large percentage differences, one criterion for agreement was used for results near the LOQ and another for higher concentrations. Samples where one or both results were below 3-times the LOQ were considered to demonstrate satisfactory precision when the two results were reported within plus-or-minus 2-times the LOQ. Where both results were greater than 3-times the LOQ, the samples were considered to demonstrate satisfactory precision when the Relative Percent Difference (RPD) was less than 50 percent. With the exception of soil gas sample location J40, all 63 of the field/temporal duplicate pairs met these acceptance criteria indicating (1) satisfactory precision of the sampling and measurement methods, and (2) the absence of ambient air contamination of the samples through migration along the probe side. The field result for J40 was measured at 389.9 ppm, but the temporal duplicate result was measured at 11.4 ppm. Additional sampling and GC analyses including spatial and temporal samples identified that organics and target analytes were present in the vicinity of this location at lower concentrations than in the initial field sample. It is possible, therefore, that a small isolated pocket of organics in soil gas was penetrated and sampled by the initial field sample.

Ten temporal duplicate samples were collected and analyzed by the GC. The results of the evaluation are presented on Table 3-4. Samples where one or both results were below 5-times the Reporting Limit (RL) were considered to have satisfactory agreement when the two concentrations were within plus-or-minus 2-times the RL of each other. Samples where both results were greater than 5-times the RL were considered to have satisfactory agreement when the RPD was less than 50 percent. For the analysis of the temporal duplicate SB54, there was an analytical problem that resulted in a retention time shift of approximately eleven minutes, and it was considered that no evaluation of the temporal analysis for SB54 was appropriate. The difference in the results for tetrachloroethylene for sample I-28 and its temporal duplicate was more than two times the reporting limit, exceeding the QC criterion. All other results for all analytes in all samples met the control criteria indicating satisfactory precision.

Only sample analytes that have at least one analyte reported as detected by the GC have been included in the Table 3-4. All other samples had all analytes reported as not-detected in both samples in the duplicate pair. These results demonstrate satisfactory agreement between the GC analytical results for the field and temporal samples,

indicating satisfactory sampling precision and confirming that the sampling and collection methods conducted were adequate to prevent identifiable contamination by ambient air during sampling.

During the PID soil gas screening investigation, nine spatial duplicate samples were collected and measured. The evaluation of the spatial duplicates used the same acceptance criteria as those for the temporal duplicates collected during the field PID soil gas screening investigation. An evaluation of the spatial duplicate measurements is shown on Table 3-3. Satisfactory representativeness of the results to the area of soil being sampled was indicated because all nine field PID spatial duplicates met the acceptance criteria.

Six spatial duplicate samples were collected and analyzed by the GC. The evaluation of the spatial duplicates used the same acceptance criteria as those for the temporal duplicates collected during the field PID soil gas investigation. An evaluation of the spatial duplicate measurements is shown on Table 3-4. Only analytes that have been reported as detected in at least one sample by the GC have been included in the table. All other analytes were reported as not-detected in both samples of the duplicate pair. These results demonstrate satisfactory agreement between the GC analytical results for the field and spatial samples. All the analytes for the field/spatial duplicate analyses met the acceptance criteria indicating satisfactory representativeness of the results to the area of soil being sampled.

The GC results for the temporal and spatial duplicate samples are included in Attachment A - GC Analysis Sample Results.

3.2 PID SAMPLE ANALYSES

Evaluation and establishing sampling and measurement procedures for the field PID instruments was conducted prior to commencing the survey. Throughout the soil gas survey QA/QC procedures were followed to monitor and maintain the performance of the PID instruments. The following evaluation and QA/QC procedures were performed:

- PID Calibration
- Calibration Check Recovery
- Limit of Quantitation Evaluation
- Ambient Air Measurements
- PID Sample Measurement Procedures

Each of these QA/QC activities is discussed below.

3.2.1 PID Calibration

Calibration of the field PIDs was performed in accordance with the Operational and Maintenance Manual provided by the manufacturer of the Mini RAE PID, and was conducted at the beginning of each day and following any period after the field PID was turned off. Additional recalibrations were conducted when the percent recovery of the field check standards were not within acceptance limits. In these instances, the instrument was recalibrated and the field calibration checks performed to evaluate whether percent recoveries were acceptable. In most instances, the percent recoveries were acceptable following recalibration of an instrument; but when the percent recoveries were not acceptable, an alternate field PID was used. All calibrations were reported in the field log books and on field PID Calibration Log Sheets. The field PIDs were calibrated against "organic-free" air obtained by drawing air into the PID through an activated charcoal filter and a 100 ppm isobutylene calibration gas mixture supplied by HAZCO Services, Inc.

3.2.2 Calibration Check Recoveries

Following calibration of the field PID, the percent recovery of the calibration gas was measured by injecting isobutylene calibration gas standard into the field PID, using the same techniques as described for measurement of the soil gas. Throughout the survey, percent recoveries fell within limits of 75 to 125 percent recovery, which were considered acceptable for the purpose of the investigation. In most instances, the recoveries were between 90 and 100 percent.

Throughout the field PID survey, 8.3 ppm calibration standard checks were conducted. These field standards were prepared by drawing a mixture of 5cc of the 100 ppm isobutylene standard into a 60cc syringe (the same type syringe as used in the soil gas sample measurement), and then drawing an additional 55cc of ambient air to make up a total volume of 60cc. This field standard corresponds to a concentration of 8.3 ppm isobutylene. Measuring the percent recovery of the 8.3 ppm calibration field standard was conducted at a frequency of approximately 1 per 10 samples throughout the survey. During the field PID survey, the percent recoveries of the 8.3 ppm field standard were initially between the 50 percent and 125 percent range. As the instrument went out of calibration, a decay of the percent recoveries of the 8.3 ppm field standards was noted; and as recoveries approached 35 percent to 30 percent, the field PID was recalibrated.

In addition to the 8.3 ppm field standard checks, calibration field standards of 4.2 ppm, 16.7 ppm and 25 ppm were also measured at times during the survey to further verify instrument performance. These standards were prepared in a similar manner to the 8.3 ppm calibration check standard, but appropriately changing the ratio of isobutylene to air.

3.2.3 Limit of Quantitation Determination

Sensitivity of the field PID instruments was evaluated by performing two different studies that were analogous to conventional laboratory practices for establishing method detection limits and detector linearity. The LOQ was established as a result of these studies, and also took into consideration that sensitivity varied from instrument to instrument.

A method detection limit (MDL) was established by taking a series of seven consecutive readings for a standard of known concentration. The standard deviation was calculated and multiplied by 3.143 as the appropriate Student t-Test value for a population of seven. The resulting number was the MDL, which represents the value above which there is a 99 percent confidence that volatile organics are present at a concentration greater than zero. Concentrations near the MDL are not considered to be quantitatively accurate, although there is a high confidence that volatile organics are present. A quantitation limit was therefore derived from the MDL study data.

Standards of three different concentrations were used for the evaluation; ambient air (0.0 ppm), 6.7 ppm and 8.3 ppm. The results of the study were as follows:

	Ambient Air 0.00 ppm Standard	6.7 ppm Standard	8.3 ppm Standard
Reading 1	0.0	3.4	6.9
Reading 2	0.0	3.8	7.6
Reading 3	0.0	3.5	6.9
Reading 4	0.0	5.1	6.9
Reading 5	0.0	4.1	4.0
Reading 6	0.0	4.0	5.5
Reading 7	0.0	3.2	6.4
Mean	0.0 ppm	3.87 ppm	6.31 ppm
Std. Dev.	0.0	0.63	1.20
MDL	NA	1.9 ppm	3.8 ppm

The results for the ambient air indicate that the PID instruments are unlikely to report false positives, that is reporting results for volatile organics that are not present. The results for the 6.7 ppm and 8.3 ppm standards indicate MDLs of 1.9 ppm and 3.8 ppm, respectively. It was considered that these MDLs satisfied the objectives for the soil gas survey, and the use of the Mini RAE PID was satisfactory for conducting the field PID survey work.

It was noted throughout the field investigation that there was some variability in sensitivity from PID instrument to PID instrument. To take this variability into account in the reporting of the data, the LOQ was calculated as 10 times the standard deviation for the 6.7 ppm MDL study, rounded up to the next whole number. The calculated LOQ value of 7.0 ppm represents the concentration above which quantitative results may be obtained. All values measured below 7.0 ppm were reported as less than 7.0 ppm.

The lowest concentration that was measurable by the PID was evaluated through analysis of standards of successively lower concentrations. A series of standards at different concentrations was prepared and analyzed by following the same process as described in Section 3.2.2 for the Calibration Check Recoveries. The concentration of standards, corresponding PID readings, and percent recoveries were as follows:

Concentration	PID Reading	Percent Recovery
100 ppm Standard	94.2 ppm	94.2%
50 ppm Standard	44.8 ppm	89.6%
33 ppm Standard	29.2 ppm	87.7%
16.7 ppm Standard	14.2 ppm	85.12%
8.3 ppm Standard	7.0 ppm	84.0%
4.2 ppm Standard	3.0 ppm	71.4%

No concentration below the 4.2 ppm standard was measurable by the PID instrument used for this study. The results show that recovery could be achieved at concentrations as low as 4.2 ppm, and that there was good correlation between the concentration and percent recovery. The PID Reading versus the Percent Recovery has a highly linear relationship with a correlation coefficient of 0.997 demonstrating that instrument response was linear throughout this range.

The accuracy and precision of the values reported are indicated by the percent recovery and repeatability of readings as discussed in the PID Calibration and Calibration Check Recovery sections. Representativeness of the field collection and measuring procedures was evaluated by the collection of temporal and spatial duplicate samples, which have previously been discussed in Sections 3.1.2 and 3.1.3.

3.2.4 Ambient Air Measurements

Ambient air readings were monitored throughout the soil gas survey to limit the potential for false positives being reported for the soil gas samples. For much of the soil gas survey, the ambient air readings (which were reported on a continual basis by the

PID instruments) read 0.0 ppm. There were some periods where fluctuating, low-level concentrations were noted. However, these concentrations did not generally exceed the LOQ, and measurements from soil gas samples collected during these periods would frequently read at concentrations less than the ambient air value indicating that the integrity of the soil gas samples was not compromised by low concentrations of organics potentially being present in the air.

To check whether the re-use of the 60cc soil gas sampling syringes may introduce contamination into a sample, approximately 60 ambient air blanks were collected throughout the survey and measured with a field PID in the same manner as for soil gas samples. No values were measured above the LOQ, and therefore no contamination of the soil gas samples from this source was considered likely.

3.2.5 PID Sample Measurement Procedures

Prior to commencing the soil gas survey, procedures for using the field PID instrumentation were evaluated with the purpose of establishing the anticipated sensitivity, accuracy, and precision that could be experienced in the field during the program and to investigate whether changes in procedure would significantly influence the measurement and reporting of known concentrations of isobutylene. Sensitivity, accuracy, and precision were discussed in the previous sections.

The initial step in this procedure was to evaluate whether variation of injection techniques affected the accuracy of analysis of the 100 ppm isobutylene standard. Little variation in percent recovery was observed by changing the rate of injection or pressure exerted on the syringe plunger. To minimize potential sampling variability between different operators and from location to location, a process was established to evenly inject a 60 cc sample into the PID in approximately 6 seconds. The 60cc volume of gas injected into the PID during the 6 second period exceeded the pumping capacity of the PID, thereby reducing the likelihood of contamination of the standard by ambient air being drawn into the PID sampling orifice.

A small length of polyethylene tubing was fitted onto the gas inlet tube of each PID so that the syringe could be snugly fit into the tube, prior to injecting the sample into the PID, thereby limiting the potential for external ambient air contamination.

The PIDs were configured to reach peak values over a 10 second period following initiation of the sampling measurement by pressing the "Enter" button on the PID. This allowed sufficient time to record the maximum value measured during injection of the 60cc sample.

3.3 MOBILE LABORATORY GC SAMPLE ANALYSES

3.3.1 Introduction

The objective of conducting QA/QC procedures was to provide a measure of the quality of GC analytical performance and the sampling procedures. The QA/QC measures conducted as part of the GC analytical program were:

- Three-point initial calibration
- Single-point continuing calibration
- Method blank analysis
- Surrogate compound analysis
- Holding time study evaluation

3.3.2 Three-Point Initial Calibration

The initial calibration of the GC was conducted by injecting commercially available, certified liquid standards containing the target list of analytes. Three different concentrations of the standard (66ng, 33ng and 6.6ng) were used to establish response factors (amount/area) and retention times for the compounds. A linear regression line was plotted for each compound, and the parameters (slope and y-intercept) obtained were used by the data system to calculate the concentrations of the target analytes in the samples. A correlation coefficient was calculated for the linear regression. Where the correlation coefficient was less than 0.900 for a given analyte, the initial calibration was

rejected and a re-calibration was conducted. An initial calibration was conducted on both the PID and Hall detectors.

There are a number of compounds (i.e., the chlorinated aromatic and olefinic analytes) which, due to the presence of halogens and favorable ionization potentials, yield responses on both detectors. These were calibrated on both detectors in the event that matrix interferences required quantitation on an alternate detector.

3.3.3 Single-Point Continuing Calibration

The GC calibration was verified at the beginning of each day and/or after every 10 sample analyses. The calibration verification standard was the mid-range calibration standard (33ng) containing all of the target compounds. If the measured concentration of any analyte differed from the analyte concentration in the calibration verification standard by more than 25 percent, the GC was re-calibrated using the initial calibration procedures described in the preceding section.

3.3.4 Method Blank Analysis

In accordance with SOP No.1 - "Soil Gas Surveys and Field Gas Chromatograph Operation," method blanks were analyzed at a minimum frequency of once per 24-hour period. Because 24-hour operations were conducted on one GC instrument, the frequency of the method blank analyses was increased. With the exception of two analytical runs, a method blank was analyzed following a continuing calibration or an initial calibration; with at least one method blank analyzed within each 24 hour period. The method blank was prepared by adding a small amount of the surrogate compound into the glass/teflon gas-tight syringe and drawing helium gas into the syringe. The surrogate compound was allowed to volatize, and then the method blank sample was injected into the GC. No target compounds were reported as identified in the method blank analyses, indicating that no contamination was likely to be introduced by the laboratory procedures.

The results for the method blank analyses are included in Attachment A - GC Analysis Sample Results.

3.3.5 Surrogate Compound

A surrogate compound (1-Chloro-2-fluorobenzene) was injected into the down-hole sample probe at the base of the probe. 1-Chloro-2-fluorobenzene was selected as the surrogate because of good response on both the Hall and the photoionization detectors of the gas chromatograph.

The addition of the surrogate compound served two main purposes. First, the identification of 1-Chloro-2-fluorobenzene in the GC sample results verified that the soil gas sample obtained in the syringe originated from the bottom of the hole. Second, for the GC analyses, the surrogate was also used to adjust retention times for the various analytes to the specific GC condition for each analysis. The 1-Chloro-2-fluorobenzene was reported as present or absent on the results sheets but it was not quantified because the amount recovered by the soil gas sample collection is not expected to be constant from sample to sample. The 1-Chloro-2-fluorobenzene peak was clearly identified on the chromatogram for both the PID and Hall detectors. All chromatograms were reviewed to ensure that the surrogate was identified in each GC sample analysis. For those analyses where the surrogate was absent, the location was re-sampled and re-analyzed.

3.3.6 Ambient Air Analysis

One ambient air sample was collected and analyzed by the GC. The ambient air sample was collected at soil gas sample location AA42 by drawing ambient air into a glass/teflon gas-tight syringe. Due to the method of collection it was not possible to add the surrogate compound. No target compounds were reported as detected, indicating that no contamination of the soil gas samples is considered likely due to ambient air.

One laboratory ambient air analysis was conducted to evaluate whether target analytes were present in the ambient air of the laboratory which may provide a potential source of contamination. The sample was collected by drawing laboratory air into the same type of glass/teflon gas syringe used for sample collection. The sample was analyzed as part of a normal sample batch of 10 analyses, and was treated identically to the field samples. No target analytes were identified in the laboratory ambient air sample,

indicating that contamination of samples during the analyses due to laboratory ambient air was unlikely.

The GC ambient air results are included in Attachment A - GC Analysis Sample Results.

3.3.7 Holding Time Studies

A malfunction developed at the start of the project with the Hall detector on one of the gas chromatographs. Due to problems with one of the two GCs, analyses were conducted on a 24-hour basis on the functional GC. Therefore the 8-hour holding time for retaining soil gas samples in the glass/teflon gas-tight syringes was occasionally exceeded. An evaluation was made of the effect of exceeding the 8 hour holding time on the sample integrity and to evaluate whether analyses that exceeded the 8 hours after sample collection would be acceptable.

An initial evaluation was performed by analyzing a sample containing known concentrations of target analytes. The sample was prepared by purging a 125 mL gas sample bulb with helium gas and allowing the bulb to stabilize at atmospheric pressure. To this was added 12.5 *u*L of a 200 ng/*u*L standard containing eighteen of the target analytes. The bulb was allowed to stabilize for approximately one hour in the laboratory, and then a sample was withdrawn from the bulb using the same type of glass/teflon gas-tight syringe as used for collection of the soil gas samples. The syringe was stored adjacent to soil gas sample syringes, and was treated in an identical manner to soil gas samples prior. The sample was injected into the GC after being stored in the laboratory for approximately 16 hours.

Since there was the probability that the target compounds did not completely volatilize owing to boiling points higher than room temperature, no quantitative results were obtainable during this study. However, it was qualitatively concluded that the 16 hour time period did not significantly affect the expected recoveries for the compounds present in the sample. The GC results for this sample are included as the sample called "Overnight Test Syringe" in Attachment A - GC Analysis Sample Results.

To further substantiate that the holding time exceedance did not adversely affect the quality of the analyses, a second test was run. Two sample test syringes were prepared in the same manner as described above. The contents of one of the syringes were analyzed immediately to provide a measure of initial vapor concentrations of the target analytes. The second syringe was stored with other soil gas samples, and was analyzed after a period of twenty-four hours. Comparison of the two sets of results indicated that there was no identified loss of target analytes over this extended period. The slightly higher reported concentrations for some target analytes in the second syringe is due to this sample being collected as the first of the two test samples from the glass bulb. After removal of the 5 mL of gas from the bulb, 5 mL of air was allowed to enter the bulb, thereby slightly diluting the standard concentrations present in the bulb when the sample was withdrawn for immediate analysis. The GC results for these sample are included as the samples called "First Test Syringe" and "Second Test Syringe" in Attachment A - GC Analysis Sample Results.

Therefore, based on the conclusions of this test sample evaluation, it is considered that samples analyzed from syringes that exceeded the 8 hour holding time maintain their sample integrity and are acceptable for use.

4.0
PRESENTATION OF RESULTS

This section presents the results of the soil gas survey at Landfill No. 5. Results for both the field PID screening and GC analysis phases of the soil gas investigation are discussed. Results are presented in tabular form in Tables 4-1 and 4-2. Figure 1, and Drawings 2 through 4 are graphical representations of the soil gas data.

4.1 FIELD PID SCREENING RESULTS

As previously discussed in Section 1.2, field PID screening results were plotted on a plan map of the site on daily basis. Following completion of the soil gas investigation, this information was refined to identify the LOQ (the PID reading at which VOC concentrations in soil gas can reliably be quantified given instrument and method variability). The field PID values below the LOQ were reported as non-detect values (< 7.0 parts per million per volume of soil gas [ppm/v]). Field PID screening results are presented in Table 4-1, and are also shown on Drawing 4 in relation to the landfill trench locations previously mapped by Cannon AFB at Landfill No. 5.

A total of 812 soil gas sample locations, including 6 background locations were investigated during the first phase of the soil gas investigation. Soil gas samples were analyzed for total VOCs by field screening using a field PID at 808 of the 812 soil gas sample locations. Analysis of soil gas could not be performed at four sampling locations due either to probe refusal (in three instances) or excess moisture at the target sampling depth.

Total VOCs were not detected above the LOQ (7.0 ppm/v, referenced to 100 ppm isobutylene calibration gas) at 631 soil gas sample locations (Figure 1). The bulk of the remaining soil gas sample locations (172 locations) had soil gas screening results ranging from 7.0 ppm/v to 50 ppm/v. Of the 177 soil gas sample locations with detected total VOCs, PID values at 54 locations ranged from 7.0 ppm/v to 9.9 ppm/v, PID values at 44 locations ranged from 10.0 ppm/v to 14.9 ppm/v, PID values at 29 locations ranged from 15.0 ppm/v to 19.9 ppm/v, and PID values at 45 ranged from 20.0 ppm/v to 49.9

ppm/v. The soil gas PID screening results at the following 5 soil gas sample locations were above 50.0 ppm/v. Four locations (I31, N44, SB19 and SB54) had results between 50.0 and 99.9 ppm/v, while one soil gas sample location (J40) had a result above 100 ppm/v (field PID screening value of 1000 ppm/v).

The soil gas sample locations with field screening results above 20 ppm occurred primarily in the eastern portion of the Landfill No. 5 site (within or immediately adjacent to areas previously mapped as landfill trench locations) (Drawing 2). No PID screening values above 15 ppm were detected in the western portion of the landfill site (west of the East-1000 foot field grid coordinate line [north-south soil gas grid line 21]) where the landfilling operation reportedly consisted of debris disposal.

With few exceptions, the highest PID field screening results occurred within or adjacent to the mapped landfill trench boundaries and/or in the area of geophysical anomalies. This is shown on Drawing 4 as linear trends in or near several of the mapped landfill trench locations. Results of the field PID screening VOC analysis suggest the lack of VOCs in soil gas for several of the mapped landfill trench locations. The lack of VOCs may be consistent with reported information that the landfilling operation in some locations at Landfill No. 5 consisted of burning waste before burial and may reflect disposal of domestic waste in portions of the landfill.

4.2 MOBILE LABORATORY GC ANALYSIS

The second phase of the soil gas investigation at Landfill No. 5 consisted of re-sampling and analyzing soil gas using a mobile laboratory GC at approximately 10 percent of the field PID screened soil gas sample locations. Results of the PID field screening for total VOCs were utilized in selecting locations at which to collect soil gas samples for GC analysis for specific VOC constituents. Criteria utilized in selecting locations at which to analyze samples with the mobile laboratory GC included:

- A representative sampling of locations with elevated PID results indicating the presence of volatile organic compounds in order to identify specific volatile organic compounds.

- A representative sampling of locations for which the PID readings were not elevated to evaluate whether VOCs of potential concern were being missed in the PID screening analysis.

- Samples representative of the major mapped landfill trenches as delineated by historic information and the geophysical surveys.

A total of 80 soil gas sample locations, including 2 background locations were selected for VOC analysis using the mobile laboratory GC. Samples were not collected for GC analysis at two of these locations due to probe refusal. The mobile laboratory GC soil gas sample locations are identified in Table 4-1 and shown on Figure 1 and Drawing 3. A summary of the detected VOC concentrations is presented in Table 4-2, and shown on Drawing 3. The GC analytical results are included in Attachment A - GC Analysis Sample Results.

VOC analytes were not detected above the laboratory reporting limit of 1.2 ppm/v at 51 (65 percent) of the GC locations sampled and analyzed. VOC analytes were detected at 37 GC sample locations. With the exception of GC sample location SB16, the detected VOCs occurred within or adjacent to previously mapped landfill trenches, or in suspected trench locations based on geophysical results in the eastern portion of Landfill No. 5. Sixteen different VOC analytes were reported in the soil gas samples at 37 GC locations as shown in Table 4-2. Total GC analyte concentrations ranged from 1.4 ppm/v to 99.0 ppm/v.

Toluene was the most frequently detected VOC (16 of 78 GC samples) and ranged from 1.7 ppm/v (location SB30) to 6.6 pmm/v (location SB54). The second most frequently detected VOC (14 of 78 GC samples) was dichlorodifluoromethane (freon-12) which is a common refrigerant. Concentrations of this VOC ranged from 1.6 ppm/v (location H25) to 94.2 ppm/v (location I34). Chloromethane was detected at a frequency of 9 of 78 GC samples and ranged in concentration from 4.1 ppm/v (location N44) to 8.2 ppm/v (locations SB54 and Q45).

Other VOCs that were detected at lower frequencies (less than 10 percent of all GC samples analyzed) included: dichloromethane (7 detections); ethylbenzene (3 detections);

tetrachloroethylene (1 detection); trans-1,2,-dichloroethylene (1 detection); trichlorothylene (TCE) (2 detections); trichlorofluoromethane (freon-11) (4 detections); xylenes (4 detections); 1,1,1-trichloroethane (2 detections); 1,1-dichloroethylene (1 detection); benzene (6 detections) and chlorobenzene (1 detection). Of these VOCs detected at a frequency of less than 10 percent, only TCE exceeded 12 ppm/v (location SB65 with a concentration of 38.7 ppm/v).

4.3 COMPARISON OF FIELD PID SCREENING AND MOBILE GC ANALYSIS

A qualitative evaluation was performed on the results of the mobile laboratory GC analysis relative to the field PID screening measurements. The field PID instrument was responsive to all VOCs for which the ionization potential is greater than the energy of the instrument light source but provided no discrimination between individual compounds. It was calibrated against a standard isobutylene gas. As such, the field PID readings were based on the assumption that all VOCs had the same detector response as isobutylene. This assumption was necessary because, in the absence of knowledge concerning the individual VOC identities, no compound-specific response factors could be utilized to calculate compound specific concentrations. On the other hand, the mobile laboratory GC measured a specific set of VOCs and calibration was performed for each of the target compounds. Thus, more accurate analytical results for those target compounds are obtainable on GC. However, since the GC analysis was of necessity limited to the preselected set of target compounds, there may be additional VOCs present in the soil gas to which there was a positive field PID response but for which there was no concentration reported in the GC analysis. Therefore, ideally, the total concentration of target compounds from the GC analysis should be equal to or less than that reported from the field PID screening.

Results from the two sets of measurements (field PID and GC), for given locations were reviewed and compared. For 71 of the 78 sample locations analyzed, if the concentrations were reported at levels greater than the reporting limit for the field PID analysis, the sum of the reported target compounds from the GC analysis was found to be less than the field PID result, consistent with expectations. The results for the seven exceptions were evaluated in more detail to determine the likely cause of the apparent discrepancy.

In two of these samples, elevated concentrations of chlorinated-ethylene compounds were the predominant target compounds present from the GC analysis. Since the field PID response to these chlorinated-ethylenes tends to be about 20% to 80% of that expected for isobutylene (the field PID calibration standard), values reported for the field PID analysis of these two samples were expected to be lower. When the concentrations reported for the field PID analysis were adjusted to take into account this lesser sensitivity, the concentrations reported by the two instruments became comparable.

In an additional three samples, dichlorodifluoromethane was reported to be the principal target compound found in the soil gas (concentrations of 84, 45, and 94 ppm/v) from the GC analysis. Since the ionization potential for dichlorodifluoromethane is higher than that of the light source used in the field PID, the PID will not respond to presence of this compound. Thus, the field PID response is consistent with the results reported from the GC analysis. However, this does mean that the PID screening survey was not sensitive to concentrations of this compound.

Similarly, in the remaining two samples for which there was an apparent discrepancy, chloromethane was reported to be the principal target compound found in the soil gas (at slightly elevated concentrations of 4 and 8 ppm) from the GC analysis. The ionization potential for chloromethane is also higher than that of the light source used in the field PID so the field PID did not respond to its presence. Thus, the field PID response was consistent with the results reported from the GC analysis and the field PID screening survey was also not sensitive to concentrations of this compound.

Thus, consistency between the field PID readings and GC results was found for all locations at which both field PID and GC results were obtained. In general, elevated concentrations of target compounds from GC analysis were reflected as elevated readings in the field PID screening survey. However, the lack of a PID response to either dichlorodifluoromethane or chloromethane must be accounted for when comparing field PID readings to GC results.

5.0
CONCLUSIONS

5.1 FIELD PID SCREENING ANALYSIS

In the eastern portion of the landfill site (east of grid line E-1000), the field PID soil gas screening and total magnetic field geophysical results shown on Drawing 4 indicate that these two investigation methods were useful in evaluating reported trench locations at Landfill No. 5. In the eastern portion of the landfill site, east of capped cell 3, five north-south trends of field PID readings above 7.0 ppm/v are evident. These trends coincide with portions of the previously mapped trenches.

In the area west of cell 3, seven general north-south trends of field PID readings above the LOQ of 7.0 ppm/v are coincidental with portions of previously mapped trench locations and prominent geophysical anomalies as shown in Drawing 4. It should be noted that in portions of the previously mapped trenches and geophysical survey anomalies at the landfill site, field PID readings above the LOQ of 7.0 ppm/v were not evident. In the northeast-southwest trending trench and geophysical anomaly located south of cell 3, only one field PID reading (7.2 ppm/v) exceeded the LOQ of 7.0 ppm/v.

Near the extreme western edge of the eastern portion of the landfill, three north-northwest trending trenches were previously mapped. Both the geophysical survey and field PID soil gas screening results suggest that these three landfill trenches may extend beyond the fenced portion of Landfill No. 5 as indicated by the blue dashed lines in the central part of Drawing 4 (near coordinates N-1500, E-1000). South of this area, three east west trenches were previously mapped by Cannon AFB. Both the geophysical survey and field PID soil gas screening results support the location of these trenches and likely extension of the trenches approximately 200 to 250 feet west of the previously mapped trench boundaries.

In the area west of the E-1000 foot grid line, no distinct linear trends of field PID soil gas screening readings above the LOQ of 7.0 ppm/v or linear geophysical anomalies were observed during this investigation. These results suggest that landfill trenching was

not carried out in this area. The one northwest-southeast linear geophysical anomaly in the northwest portion of Landfill No. 5 appears to correspond to a former drainage feature leading toward the former playa lake. All seven field PID soil gas screening results above the LOQ in the western portion appeared to be coincidental with isolated geophysical anomalies (Drawing 4).

It is important to note, that 74 percent (631 of 808) of the field PID soil gas screening results were below the LOQ of 7.0 ppm/v.

5.2 MOBILE LABORATORY GC ANALYSIS

The mobile laboratory GC analysis results indicate the presence of VOCs east of the E-1000 foot grid line (Drawing 4), generally consistent with elevated readings detected in the field PID soil gas screening survey. Seventy-eight soil gas samples were analyzed for the following 42 EPA Methods 8010 and 8020 analytes:

Benzene
Benzyl chloride
Bis(2-chloroethoxy)methane
Bromobenzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chloroacetaldehyde
Chlorobenzene
Chloroethane
Chloroform
1-Chlorohexane
2-Chloroethyl vinyl ether
Chloromethane
Chloromethylmethyl ether
4-Chlorotoluene
Dibromochloromethane
Dibromomethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
trans-1,2,-Dichloroethylene
Dichloromethane
1,2-Dichloropropane
trans-1,2-Dichloropropene
Ethylbenzene
1,1,2,2-Tetrachloroethane
1,1,1,2-Tetrachloroethane
Tetrachloroethylene
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Trichlorofluoromethane
1,2,3-Trichloropropane
Vinyl chloride
Xylenes

Of the above analytes, 62 percent (26 analytes) were not detected in the 78 GC samples analyzed. Sixteen analytes were detected (above the 1.2 ppm/v reporting limit) in GC samples at 45 percent (37 of 78) of locations sampled. For the sixteen analytes detected in GC analysis of the soil gas, 74 percent of the reported detections were at concentrations below 5.0 ppm/v. As described in Section 6.0, the mobile laboratory GC analysis provides a tentative identification of compounds present. The 16 VOC analytes tentatively identified can be separated into three analyte classes; petroleum related or fuel additive compounds (5 analytes; benzene, toluene, ethylbenzene, xylenes, and chloroethane); compounds commonly used in refrigerants or as blowing (foam) agents (3 analytes; trichlorofluoromethane, dichlorodifluoromethane, and chloromethane); and compounds typically used as solvents (the remaining 8 VOC analytes; dichloromethane [methylene chloride], tetrachloroethylene [PCE], trichloroethylene [TCE], 1,1,1,2-tetrachloroethane, 1,1,1-trichloroethane, 1,1-dichloroethylene, chlorobenzene, and trans1,2-dichloroethylene).

The petroleum related compounds may indicate the presence of residual concentrations as a result of fuel used to burn wastes prior to burial, and are likely to be present at trenches where this landfilling procedure was performed. The petroleum related compounds were detected at low concentrations, ranging from 1.4 ppm/v to 5.2 ppm/v in soil gas. Benzene is the only petroleum related compound detected in soil gas which is likely to be considered a potential chemical of concern in a human heath risk evaluation if present at elevated concentrations in soil.

The three refrigerant/blowing agent related compounds may indicate the presence of buried commonly used items such as aerosol containers, compressors, fire extinquishers, and foam products. These three compounds were detected at concentrations ranging from 1.6 ppm/v to 94.2 ppm/v. The highest concentrations detected were for dichlorodifluoromethane which ranged from 1.6 ppm/v to 94.2 ppm/v. Of these three compounds, only chloromethane (4.1 ppm/v to 8.2 ppm/v), which is also used in solvents and herbicides would likely be considered a potential chemical of concern in a human health risk evaluation if present at elevated concentrations in soil.

The eight compounds classified as solvents that were detected in this investigation had soil gas GC results which ranged from 1.4 ppm/v to 38.7 ppm/v. With the exception of

tetrachloroethylene (PCE) (1 detect at 11.8 ppm/v) and trichloroethylene (TCE) (2 detects at 11.8 ppm/v and 38.7 ppm/v) these VOCs were detected at concentrations below 10 ppm/v (13 detects at 5.0 ppm/v and lower). Both PCE and TCE would likely be considered as potential chemicals of concern in a human health risk evaluation if detected at elevated concentrations in soil.

5.3 CONSIDERATIONS FOR SELECTING SOIL BORING LOCATIONS

Results of the soil gas survey suggest that VOCs are present in low concentrations in soil gas at distinct locations within or adjacent to previously mapped landfill trenches. Based on these results, and the geophysical survey discussed in the accompanying appendix, the criteria presented below should be considered and evaluated in aggregate when making decisions regarding the selection of soil boring locations at Landfill No. 5. By evaluating the following criteria when making decisions, additional information which supplements the results of the soil gas investigation can be obtained. The resulting sampling program will allow for the evaluation of a broad area and different soil gas result conditions using the least number of sampling points.

- Trends shown by the field PID results:

  When considering locations for soil borings at Landfill No. 5, the general trends shown by the field PID data should be considered when designing the sampling program (i.e, selecting sampling locations). Soil boring locations should be located such that subsurface soil samples are collected at locations representative of trends in elevated field PID readings. Some borings should also be located outside of these elevated field PID trends, but within mapped trench locations and geophysical anomalies. Additional borings should be located outside of field PID trends, geophysical anomalies, and mapped trench locations.

- Low field PID readings and moderate chlorinated solvent GC sample concentrations:

  The results presented in the previous section indicate that at several locations, moderate concentrations of chlorinated solvents were detected in the GC sample results when the corresponding field PID level was near the LOQ. Soil borings should be located such that soil conditions at locations indicative of these soil gas results are evaluated.

- Low or non-detectable Field PID readings and detectable petroleum compound GC sample concentrations:

  The soil gas results presented in the previous section indicate that at several locations, moderate concentrations of petroleum related compounds were detected in the GC sample at concentrations less than 7.0 ppm/v which were not-detectable by field PID with a LOQ of 7.0 ppm/v. Soil borings should be located such that soil conditions at locations indicative of these soil gas results are evaluated.

- Identify detected compounds that could be considered a potential human health and environmental risk if present in soils:

  At several soil gas sample locations, VOCs were identified during analysis of soil gas using the mobile laboratory GC that potentially could pose unacceptable human health and environmental risks if present in soils moderate to low concentration. Soil borings should be located to evaluate whether these compounds are present in soils beneath the landfill cells, and if present are they at levels above the risk-based concentrations.

- Confirm the identification of VOC chemicals of interests:

  Several VOCs where tentatively identified by the soil gas GC analyses. Confirmation of these identifications should be made through laboratory analysis with either a second column or mass spectrometric confirmation,

prior to considering them as chemicals of interest at Landfill No. 5. Soil borings should be located such that, where these VOCs were tentatively identified by the GC, soil samples are collected to evaluate the presence these compounds at Landfill No. 5.

6.0
LIMITATIONS

The soil gas survey at Landfill No. 5 was performed in accordance with the Phase I RFI Work Plan and within the standard care of the profession for conducting field investigations. The interpretations and conclusions are rendered in a manner consistent with other consultants in our profession. However, this type of field investigation is considered a screening level investigation and has some level of uncertainty and limitations. The soil gas samples are representative of the soil gas in the area immediately surrounding the soil gas probe, and the GC used to analyze soil gas samples to identify specific VOCs is a field grade instrument. The field GC analysis used retention time on a single column as the criterion for qualitatively identifying a compound. Since there was no second column or mass spectral confirmation, the identifications should be considered tentative. No direct interpretation of definitive concentrations between sample locations can be made, however, general trends in the data can be observed which should prove useful in selecting locations for soil borings. Thus the presence and identification of detected compounds should be confirmed with soil sample analysis.

TABLE 3-1
SOIL GAS SURVEY
FIELD PID PROBE BLANK RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Soil Gas Grid Point Location	PID Field Result (ppm/v)
AA33	<7.0
BB29	<7.0
BB37	<7.0
D35	<7.0
D40	<7.0
DD37	<7.0
E46	<7.0
F26	<7.0
G39	<7.0
H18	<7.0
H36	<7.0
I31	<7.0
I36	<7.0
J31	<7.0
J40	<7.0
K31	<7.0
L24	<7.0
M22	<7.0
M43	<7.0
N25	<7.0
N44	<7.0
O15	<7.0
P37	<7.0
P43	<7.0
Q37	<7.0
R29	<7.0
S31	<7.0
SB19	<7.0
SB46	<7.0
SB52	<7.0
SB73	<7.0
SB81	<7.0
SG11	<7.0
SG6	<7.0
T27	<7.0
T34	<7.0
U44	<7.0
Y28	<7.0
Z32	<7.0
Z41	<7.0

PID - Photoionization detector
ppm/v - Parts per million by volume, as referenced to 100 ppm/v isobutylene calibration gas standard.

TABLE 3-2
SOIL GAS SURVEY
FIELD PID TEMPORAL DUPLICATE RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Soil Gas Grid Point Location	PID Field Result (ppm/v)	PID Duplicate Field Result (ppm/v)	Relative Percent Difference (%)	Within 2x LOQ?
AA33	16.1	20.6	NA	YES
AA41	15.6	10.8	NA	YES
BB37	7.6	10.2	NA	YES
BB43	<7.0	<7.0	NA	YES
C39	<7.0	<7.0	NA	YES
CC37	<7.0	<7.0	NA	YES
D40	7.2	<7.0	NA	YES
DD36	16.4	14.6	NA	YES
DD40	<7.0	<7.0	NA	YES
E39	<7.0	<7.0	NA	YES
E45	<7.0	<7.0	NA	YES
F31	7.8	8.2	NA	YES
G17	<7.0	<7.0	NA	YES
G32	13.6	12.4	NA	YES
G35	19.1	17.6	NA	YES
G36	<7.0	<7.0	NA	YES
G39	16.7	16.0	NA	YES
H23	<7.0	<7.0	NA	YES
H36	<7.0	<7.0	NA	YES
H40	12.1	10.3	NA	YES
I25	<7.0	9.1	NA	YES
I29	<7.0	<7.0	NA	YES
I40	<7.0	<7.0	NA	YES
J36	<7.0	<7.0	NA	YES
J40	389.9	11.4	NA	NO
K33	<7.0	<7.0	NA	YES
K43	<7.0	13.1	NA	YES
L23	<7.0	<7.0	NA	YES
L28	9.3	10.4	NA	YES
M13	<7.0	<7.0	NA	YES
M29	<7.0	7.6	NA	YES
M43	32.9	35.2	-7	NA
N26	<7.0	<7.0	NA	YES
N39	9.3	12.8	NA	YES
N44	50.0	49.0	2	NA
O15	<7.0	<7.0	NA	YES
P37	34.7	39.7	-13	NA
P43	32.4	32.4	0	NA
P44	16.3	17.4	NA	YES
Q12	<7.0	<7.0	NA	YES
Q37	19.8	21.2	NA	YES
Q43	19.6	20.4	NA	YES

TABLE 3-2
SOIL GAS SURVEY
FIELD PID TEMPORAL DUPLICATE RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Soil Gas Grid Point Location	PID Field Result (ppm/v)	PID Duplicate Field Result (ppm/v)	Relative Percent Difference (%)	Within 2x LOQ?
Q8	<7.0	<7.0	NA	YES
R33	29.0	26.6	9	NA
R35	<7.0	<7.0	NA	YES
SB10	10.4	10.1	NA	YES
SB18	14.4	15.3	NA	YES
SB31	12.1	10.7	NA	YES
SB4	<7.0	<7.0	NA	YES
SB46	21.3	26.2	-21	NA
SB73	32.2	33.1	-3	NA
SB8	<7.0	<7.0	NA	YES
SB81	26.8	29.5	-10	NA
SB87	19.8	18.9	NA	YES
SG6	<7.0	<7.0	NA	YES
T26	7.6	7.4	NA	YES
T27	14.3	16.8	NA	YES
U10	<7.0	<7.0	NA	YES
U12	7.6	7.3	NA	YES
U25	<7.0	<7.0	NA	YES
U36	<7.0	<7.0	NA	YES
U37	10.6	11.4	NA	YES
Z32	<7.0	<7.0	NA	YES

NA - Not applicable
PID - Photoionization detector
ppm/v - Parts per million by volume, as referenced to 100 ppm/v isobutylene calibration gas standard.

TABLE 3-3
SOIL GAS SURVEY
FIELD PID SPATIAL DUPLICATE RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Soil Gas Grid Point Location	PID Field Result (ppm/v)	PID Duplicate Field Result (ppm/v)	Relative Percent Difference (%)	Within 2x LOQ?
G39	16.7	16.0	NA	YES
J40	389.9	11.3	NA	NO
M43	32.9	32.7	1	NA
O27	10.2	<7.0	NA	YES
SB30	23.9	31.7	-28	NA
T27	14.3	16.5	NA	YES
T3	<7.0	<7.0	NA	YES
W38	<7.0	<7.0	NA	YES
Y41	<7.0	<7.0	NA	YES

NA - Not applicable
PID - Photoionization detector
ppm/v - Parts per million by volume, as referenced to 100 ppm/v isobutylene calibration gas standard.

SOIL GAS SURVEY
GC TEMPORAL AND SP[illegible] DUPLICATE RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Sample Location	Grid Coordinates North (ft)	Grid Coordinates East (ft)	Detected Analyte (ppm/v) 1,1,1,2-Tetrachloro ethane	1,1,1-Trichloro ethane	1,1-Dichloro ethylene	1,4-Dichloro benzene	Benzene	Chlorobenzene	Chloromethane	Dichloro difluoromethane
Temporal Duplicates:										
SB28-Field	840	1250	ND	ND	ND	ND	ND	ND	ND	ND
SB28-Temporal	840	1250	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
SB19-Field	800	1675	ND	ND	ND	ND	ND	ND	ND	ND
SB19-Temporal	800	1675	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
I28 -Field	950	1350	ND	ND	ND	ND	ND	ND	ND	ND
I28 -Temporal	950	1350	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
D29 -Field	700	1400	ND	ND	ND	ND	ND	ND	ND	ND
D29 -Temporal	700	1400	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
P37-Field	1300	1800	ND	ND	ND	ND	ND	ND	ND	ND
P37-Temporal	1300	1800	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
I31-Field	950	1500	1.7	ND	ND	ND	ND	ND	ND	ND
I31-Temporal	950	1500	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
SB73-Field	1650	1420	ND	ND	ND	ND	ND	ND	4.3	2.4
SB73-Temporal	1650	1420	ND	ND	ND	ND	ND	ND	4.2	2.5
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	2%	4%
I13-Field	950	600	ND	ND	ND	ND	ND	ND	ND	ND
I13-Temporal	950	600	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL

TABLE 3-4
SOIL SURVEY
GC TEMPORAL AND SPATIAL DUPLICATE RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Sample Location	Grid Coordinates North (ft)	Grid Coordinates East (ft)	Detected Analyte (ppm/v) 1,1,1,2-Tetrachloro ethane	1,1,1-Trichloro ethane	1,1-Dichloro ethylene	1,4-Dichloro benzene	Benzene	Chlorobenzene	Chloromethane	Dichloro difluoromethane
Spatial Duplicates:										
SB28-Field	840	1250	ND	ND	ND	ND	ND	ND	ND	ND
SB28-Spatial	840	1250	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
D29-Field	700	1400	ND	ND	ND	ND	ND	ND	ND	ND
D29-Spatial	700	1400	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
J40-Field	1000	1950	ND	4.0	ND	ND	ND	ND	ND	19.9
J40-Spatial	1000	1950	ND	4.6	ND	ND	ND	ND	ND	12.1
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	49%
J40-Spatial	1000	1950	ND	4.6	ND	ND	ND	ND	ND	12.1
J40-Temporal *	1000	1950	ND	4.4	ND	ND	ND	ND	ND	10.3
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	16%
I31-Field	950	1500	1.7	ND	ND	ND	ND	ND	ND	ND
I31-Spatial	950	1500	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
R05-Field	1400	200	ND	ND	ND	ND	ND	ND	ND	ND
R05-Spatial	1400	200	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
I13-Field	950	600	ND	ND	ND	ND	ND	ND	ND	ND
I13-Spatial	950	600	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL

NOTES

1. For the Relative Percent Difference: where one or both results are <5x the Reporting Limit (RL) the precision has been evaluated on the basis of results being within ± 2xRL, and where both results are >5xRL the Relative Percent Difference has been calculated.
2. * Temporal duplicate sample collected with the spatial duplicate sample.
3. ND - not detected at 1.2 ppm/v.
4. Data for the evaluation of Temporal and Spatial Duplicates are on Table 4-2 , GC Sample Results Summary, and does not include samples for which all analytes were reported as not detected.

TABLE 3-4
SOIL GAS SURVEY
GC TEMPORAL AND SPATIAL DUPLICATE RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Sample Location	Grid Coordinates North	Grid Coordinates East	Detected Analyte (ppm) Dichloromethane	Ethylbenzene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Trichlorofluormethane	Xylenes
Temporal Duplicates:										
SB28-Field	840	1250	ND	ND	ND	ND	ND	ND	ND	ND
SB28-Temporal	840	1250	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
SB19-Field	800	1675	ND	ND	ND	ND	ND	ND	ND	ND
SB19-Temporal	800	1675	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
I28 -Field	950	1350	ND	ND	11.8	3.1	ND	11.8	ND	2.2
I28 -Temporal	950	1350	ND	ND	4.6	2.8	ND	8.7	ND	ND
RPD			<2xRL	<2xRL	>2xRL	<2xRL	<2xRL	30%	<2xRL	<2xRL
D29 -Field	700	1400	ND	ND	ND	ND	ND	ND	ND	ND
D29 -Temporal	700	1400	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
P37-Field	1300	1800	ND	ND	ND	ND	ND	ND	ND	ND
P37-Temporal	1300	1800	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
I31-Field	950	1500	ND	2.1	ND	ND	ND	ND	ND	ND
I31-Temporal	950	1500	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
SB73-Field	1650	1420	ND	ND	ND	ND	ND	ND	ND	ND
SB73-Temporal	1650	1420	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
I13-Field	950	600	ND	ND	ND	ND	ND	ND	ND	ND
I13-Temporal	950	600	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL

T E 3-4

SOIL , SURVEY

GC TEMPORAL AND SPATIAL DUPLICATE RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)

Cannon AFB, New Mexico

Sample Location	Grid Coordinates North	East	Detected Analyte (ppm) Dichloro methane	Ethylbenzene	Tetrachloro ethylene	Toluene	trans-1,2-Dichloroethylene	Trichloro ethylene	Trichloro fluormethane	Xylenes
Spatial Duplicates:										
SB28-Field	840	1250	ND	ND	ND	ND	ND	ND	ND	ND
SB28-Spatial	840	1250	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
D29-Field	700	1400	ND	ND	ND	ND	ND	ND	ND	ND
D29-Spatial	700	1400	ND	ND	ND	ND	ND	ND	ND	1.8
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
J40-Field	1000	1950	5.5	ND	ND	3.4	ND	ND	ND	ND
J40-Spatial	1000	1950	4.3	ND	ND	3.4	ND	ND	1.6	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
J40-Spatial	1000	1950	4.3	ND	ND	3.4	ND	ND	1.6	ND
J40-Temporal *	1000	1950	4.0	ND	ND	3.4	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
I31-Field	950	1500	ND	2.1	ND	ND	ND	ND	ND	ND
I31-Spatial	950	1500	ND	ND	ND	1.8	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
R05-Field	1400	200	ND	ND	ND	ND	ND	ND	ND	ND
R05-Spatial	1400	200	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL
I13-Field	950	600	ND	ND	ND	ND	ND	ND	ND	ND
I13-Spatial	950	600	ND	ND	ND	ND	ND	ND	ND	ND
RPD			<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL	<2xRL

NOTES

1. For the Relative Percent Difference: where one or both results are <5x the Reporting Limit (RL) the precision has been evaluated on the basis of results being within ± 2xRL, and where both results are >5xRL the Relative Percent Difference has been calculated.
2. * Temporal duplicate sample collected with the spatial duplicate sample.
3. ND - not detected at 1.2 ppm/v.
4. Data for the evaluation of Temporal and Spatial Duplicates are on Table B4-2 , GC Sample Results Summary, and does not include samples for which all analytes were reported as not de

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1225969.98	809953.30	545	1150	SB05	28-Feb-95	1050	10	<7.0	
1225998.53	809852.88	575	1050	SB06	2-Mar-95	1549	10	<7.0	
1226001.42	810052.86	575	1250	SB04	28-Feb-95	1039	10	<7.0	
1226002.86	810152.85	575	1350	SB16	1-Mar-95	1435	10	21.4	yes
1225978.58	810203.20	550	1400	A29	28-Feb-95	1023	10	<7.0	
1225979.30	810253.20	550	1450	A30	28-Feb-95	1013	10	<7.0	
1225980.02	810303.19	550	1500	A31	28-Feb-95	1000	10	<7.0	
1225980.75	810353.19	550	1550	A32	28-Feb-95	940	10	<7.0	
1225981.47	810403.18	550	1600	A33	28-Feb-95	928	10	<7.0	
1225982.19	810453.18	550	1650	A34	28-Feb-95	916	10	<7.0	
1225982.91	810503.17	550	1700	A35	28-Feb-95	857	9	<7.0	
1225983.63	810553.17	550	1750	A36	28-Feb-95	840	10	<7.0	
1225984.35	810603.16	550	1800	A37	28-Feb-95	842	10	<7.0	
1225985.07	810653.16	550	1850	A38	28-Feb-95	829	10	<7.0	
1226027.23	810802.56	590	2000	SB03	28-Feb-95	816	10	<7.0	
1226037.95	810852.41	600	2050	SB02	28-Feb-95	802	10	<7.0	yes
1226028.68	810902.55	590	2100	SB01	28-Feb-95	811	10	<7.0	
1226028.58	810202.48	600	1400	B29	28-Feb-95	1109	10	<7.0	
1226029.30	810252.48	600	1450	B30	28-Feb-95	1140	10	7.0	
1226030.02	810302.47	600	1500	B31	28-Feb-95	1140	10	9.2	
1226030.74	810352.47	600	1550	B32	28-Feb-95	1151	10	<7.0	
1226031.46	810402.46	600	1600	B33	22-Feb-95	1017	10	<7.0	
1226032.18	810452.46	600	1650	B34	22-Feb-95	1039	10	<7.0	
1226032.90	810502.45	600	1700	B35	22-Feb-95	1059	10	<7.0	
1226033.63	810552.45	600	1750	B36	22-Feb-95	1123	10	<7.0	yes
1226034.35	810602.44	600	1800	B37	22-Feb-95	1145	10	<7.0	
1226035.07	810652.44	600	1850	B38	22-Feb-95	1208	10	<7.0	
1226035.79	810702.43	600	1900	B39	22-Feb-95	1207	10	<7.0	
1226036.51	810752.43	600	1950	B40	22-Feb-95	1150	10	<7.0	
1226060.07	810652.07	625	1850	SB17	1-Mar-95	1605	10	<7.0	
1226078.57	810201.76	650	1400	C29	28-Feb-95	1302	10	<7.0	
1226079.29	810251.76	650	1450	C30	28-Feb-95	1308	10	<7.0	
1226080.01	810301.75	650	1500	C31	28-Feb-95	1255	10	8.4	
1226080.74	810351.75	650	1550	C32	28-Feb-95	1201	10	24.9	yes
1226081.46	810401.74	650	1600	C33	22-Feb-95	912	10	<7.0	
1226082.18	810451.74	650	1650	C34	22-Feb-95	927	10	<7.0	
1226082.90	810501.73	650	1700	C35	22-Feb-95	943	10	<7.0	
1226083.62	810551.72	650	1750	C36	22-Feb-95	959	10	<7.0	
1226084.34	810601.72	650	1800	C37	22-Feb-95	1019	10	<7.0	
1226085.06	810651.71	650	1850	C38	22-Feb-95	1037	10	<7.0	
1226085.78	810701.71	650	1900	C39	22-Feb-95	1052	10	<7.0	
1226095.78	810701.56	660	1900	SB15	1-Mar-95	1624	10	<7.0	
1226086.51	810751.70	650	1950	C40	22-Feb-95	1111	10	<7.0	
1226087.23	810801.70	650	2000	C41	22-Feb-95	1128	10	<7.0	
1226156.40	810050.62	730	1250	SB07	1-Mar-95	1502	10	11.0	yes
1226128.57	810201.04	700	1400	D29	28-Feb-95	1321	10	10.5	yes
1226129.29	810251.03	700	1450	D30	28-Feb-95	1333	10	<7.0	
1226130.01	810301.03	700	1500	D31	28-Feb-95	1347	10	<7.0	
1226130.73	810351.02	700	1550	D32	28-Feb-95	1401	10	9.8	yes
1226131.45	810401.02	700	1600	D33	22-Feb-95	859	10	<7.0	
1226132.17	810451.01	700	1650	D34	22-Feb-95	924	7	<7.0	
1226132.89	810501.01	700	1700	D35	22-Feb-95	953	10	<7.0	
1226133.62	810551.00	700	1750	D36	22-Feb-95	1007	10	<7.0	
1226134.34	810601.00	700	1800	D37	22-Feb-95	1019	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226134.70	810626.00	700	1825	SB64	1-Mar-95	1549	10	12.5	
1226135.06	810650.99	700	1850	D38	22-Feb-95	1032	10	<7.0	
1226135.78	810700.99	700	1900	D39	22-Feb-95	1051	10	<7.0	
1226136.50	810750.98	700	1950	D40	22-Feb-95	1118	10	7.2	
1226137.22	810800.98	700	2000	D41	22-Feb-95	1136	10	<7.0	
1226137.94	810850.97	700	2050	D42	22-Feb-95	1149	10	<7.0	
1226138.67	810900.97	700	2100	D43	22-Feb-95	1203	10	<7.0	
1226171.35	809700.37	750	900	E19	25-Feb-95	756	10	<7.0	
1226172.07	809750.37	750	950	E20	25-Feb-95	811	10	<7.0	
1226172.79	809800.36	750	1000	E21	25-Feb-95	827	10	<7.0	
1226173.51	809850.35	750	1050	E22	25-Feb-95	844	10	<7.0	
1226174.23	809900.35	750	1100	E23	25-Feb-95	900	10	<7.0	
1226174.95	809950.34	750	1150	E24	28-Feb-95	1602	10	<7.0	
1226175.68	810000.34	750	1200	E25	28-Feb-95	1619	10	<7.0	
1226176.40	810050.33	750	1250	E26	28-Feb-95	1632	10	<7.0	
1226177.12	810100.33	750	1300	E27	28-Feb-95	1524	10	<7.0	
1226177.84	810150.32	750	1350	E28	28-Feb-95	1500	10	<7.0	
1226178.56	810200.32	750	1400	E29	28-Feb-95	1435	10	<7.0	
1226179.28	810250.31	750	1450	E30	28-Feb-95	1411	10	<7.0	
1226180.00	810300.31	750	1500	E31	28-Feb-95	1350	10	<7.0	
1226180.73	810350.30	750	1550	E32	28-Feb-95	1324	10	10.3	
1226181.45	810400.30	750	1600	E33	22-Feb-95	950	10	<7.0	
1226182.17	810450.29	750	1650	E34	22-Feb-95	925	10	<7.0	
1226182.53	810475.29	750	1675	SB18	1-Mar-95	1357	10	14.4	
1226182.89	810500.29	750	1700	E35	22-Feb-95	839	10	<7.0	
1226183.61	810550.28	750	1750	E36	22-Feb-95	820	10	<7.0	
1226184.33	810600.28	750	1800	E37	21-Feb-95	1714	10	<7.0	
1226184.69	810625.27	750	1825	SB63	1-Mar-95	1535	10	<7.0	
1226185.05	810650.27	750	1850	E38	21-Feb-95	1701	10	<7.0	
1226185.77	810700.27	750	1900	E39	21-Feb-95	1634	10	<7.0	
1226186.50	810750.26	750	1950	E40	21-Feb-95	1559	10	<7.0	
1226187.22	810800.26	750	2000	E41	21-Feb-95	1545	10	<7.0	
1226187.94	810850.25	750	2050	E42	21-Feb-95	1523	10	<7.0	
1226188.66	810900.25	750	2100	E43	21-Feb-95	1500	10	<7.0	
1226189.38	810950.24	750	2150	E44	21-Feb-95	1438	10	<7.0	
1226190.10	811000.24	750	2200	E45	21-Feb-95	1421	10	<7.0	
1226190.82	811050.23	750	2250	E46	21-Feb-95	1354	10	<7.0	
1226221.34	809699.65	800	900	F19	25-Feb-95	751	10	<7.0	
1226222.06	809749.64	800	950	F20	25-Feb-95	805	10	<7.0	
1226222.79	809799.64	800	1000	F21	25-Feb-95	817	10	<7.0	
1226223.51	809849.63	800	1050	F22	25-Feb-95	830	10	<7.0	
1226224.23	809899.63	800	1100	F23	25-Feb-95	845	10	<7.0	
1226224.95	809949.62	800	1150	F24	25-Feb-95	858	10	<7.0	
1226225.67	809999.62	800	1200	F25	28-Feb-95	1539	10	<7.0	
1226226.39	810049.61	800	1250	F26	28-Feb-95	1528	10	<7.0	
1226227.11	810099.61	800	1300	F27	28-Feb-95	1517	9	<7.0	
1226227.83	810149.60	800	1350	F28	28-Feb-95	1506	9	<7.0	
1226228.56	810199.60	800	1400	F29	28-Feb-95	1459	10	<7.0	
1226229.28	810249.59	800	1450	F30	28-Feb-95	1442	10	<7.0	
1226230.00	810299.59	800	1500	F31	28-Feb-95	1424	10	7.8	
1226230.72	810349.58	800	1550	F32	28-Feb-95	1412	10	<7.0	
1226231.44	810399.58	800	1600	F33	22-Feb-95	844	10	<7.0	
1226232.16	810449.57	800	1650	F34	22-Feb-95	827	10	<7.0	
1226232.52	810474.57	800	1675	SB19	1-Mar-95	1335	10	95.3	yes
1226232.88	810499.57	800	1700	F35	22-Feb-95	808	10	22.4	yes

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226233.61	810549.56	800	1750	F36	21-Feb-95	1711	10	<7.0	
1226234.33	810599.56	800	1800	F37	21-Feb-95	1654	10	<7.0	
1226235.05	810649.55	800	1850	F38	21-Feb-95	1635	10	<7.0	
1226235.77	810699.55	800	1900	F39	21-Feb-95	1619	10	<7.0	
1226236.49	810749.54	800	1950	F40	21-Feb-95	1608	10	<7.0	
1226237.21	810799.53	800	2000	F41	21-Feb-95	1550	10	<7.0	
1226237.93	810849.53	800	2050	F42	21-Feb-95	1520	10	<7.0	
1226213.66	810899.88	775	2100	SB38	1-Mar-95	1642	10	<7.0	
1226238.65	810899.52	800	2100	F43	21-Feb-95	1508	10	<7.0	
1226239.38	810949.52	800	2150	F44	21-Feb-95	1451	10	<7.0	yes
1226240.10	810999.51	800	2200	F45	21-Feb-95	1430	10	<7.0	
1226240.82	811049.51	800	2250	F46	21-Feb-95	1414	10	<7.0	
1226269.89	809598.94	850	800	G17	25-Feb-95	1056	10	<7.0	
1226270.62	809648.93	850	850	G18	25-Feb-95	1043	10	<7.0	
1226271.34	809698.93	850	900	G19	25-Feb-95	1032	10	<7.0	
1226257.06	809749.14	835	950	SB34	2-Mar-95	1432	10	<7.0	yes
1226272.06	809748.92	850	950	G20	25-Feb-95	1015	10	<7.0	
1226257.78	809799.13	835	1000	SB33	2-Mar-95	1443	10	15.2	yes
1226272.78	809798.92	850	1000	G21	25-Feb-95	1001	10	<7.0	yes
1226258.50	809849.13	835	1050	SB32	2-Mar-95	1457	10	12.0	
1226273.50	809848.91	850	1050	G22	25-Feb-95	945	10	<7.0	
1226254.22	809899.20	830	1100	SB31	2-Mar-95	1508	10	12.1	
1226274.22	809898.91	850	1100	G23	25-Feb-95	930	10	<7.0	
1226254.95	809949.19	830	1150	SB30	2-Mar-95	1520	10	23.9	yes
1226274.94	809948.90	850	1150	G24	25-Feb-95	915	10	<7.0	
1226255.67	809999.19	830	1200	SB29	1-Mar-95	1553	10	14.3	
1226275.67	809998.90	850	1200	G25	27-Feb-95	1632	10	8.5	
1226266.39	810049.04	840	1250	SB28	1-Mar-95	1608	10	26.3	yes
1226276.39	810048.89	850	1250	G26	27-Feb-95	1646	10	9.5	
1226267.11	810099.03	840	1300	SB27	1-Mar-95	1625	10	<7.0	
1226277.11	810098.89	850	1300	G27	27-Feb-95	1659	10	<7.0	
1226257.83	810149.17	830	1350	SB26	1-Mar-95	1641	10	26.7	
1226277.83	810148.88	850	1350	G28	27-Feb-95	1707	10	<7.0	
1226253.55	810199.24	825	1400	SB25	1-Mar-95	1654	10	7.4	
1226278.55	810198.88	850	1400	G29	27-Feb-95	1657	10	<7.0	
1226279.27	810248.87	850	1450	G30	28-Feb-95	1630	10	<7.0	
1226279.99	810298.87	850	1500	G31	28-Feb-95	1645	10	24.6	yes
1226280.71	810348.86	850	1550	G32	28-Feb-95	1654	10	12.6	
1226281.44	810398.85	850	1600	G33	22-Feb-95	847	10	<7.0	
1226282.16	810448.85	850	1650	G34	22-Feb-95	830	10	<7.0	
1226282.52	810473.85	850	1675	SB20	1-Mar-95	1324	10	46.5	
1226282.88	810498.84	850	1700	G35	22-Feb-95	800	10	<7.0	
1226283.60	810548.84	850	1750	G36	21-Feb-95	1729	10	<7.0	
1226284.32	810598.83	850	1800	G37	21-Feb-95	1702	10	<7.0	
1226285.04	810648.83	850	1850	G38	21-Feb-95	1655	10	<7.0	
1226285.76	810698.82	850	1900	G39	21-Feb-95	1639	10	16.7	yes
1226286.12	810723.82	850	1925	SB62	1-Mar-95	1519	10	<7.0	
1226286.49	810748.82	850	1950	G40	21-Feb-95	1602	10	<7.0	
1226287.21	810798.81	850	2000	G41	21-Feb-95	1547	10	<7.0	
1226287.93	810848.81	850	2050	G42	21-Feb-95	1530	10	<7.0	
1226288.65	810898.80	850	2100	G43	21-Feb-95	1516	10	<7.0	
1226289.37	810948.80	850	2150	G44	21-Feb-95	1458	10	<7.0	
1226290.09	810998.79	850	2200	G45	21-Feb-95	1440	10	<7.0	
1226290.81	811048.79	850	2250	G46	21-Feb-95	1422	10	<7.0	
1226315.56	809298.25	900	500	SG12	2-Mar-95	1417	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226319.89	809598.22	900	800	H17	25-Feb-95	1053	10	<7.0	
1226320.61	809648.21	900	850	H18	25-Feb-95	1042	10	<7.0	
1226321.33	809698.21	900	900	H19	25-Feb-95	1027	10	<7.0	
1226322.05	809748.20	900	950	H20	25-Feb-95	1013	10	<7.0	
1226322.77	809798.20	900	1000	H21	25-Feb-95	957	10	<7.0	
1226323.50	809848.19	900	1050	H22	25-Feb-95	940	10	<7.0	
1226324.22	809898.19	900	1100	H23	25-Feb-95	924	10	<7.0	
1226324.94	809948.18	900	1150	H24	25-Feb-95	911	10	<7.0	
1226325.66	809998.18	900	1200	H25	27-Feb-95	1548	10	7.5	yes
1226326.38	810048.17	900	1250	H26	27-Feb-95	1605	10	<7.0	
1226327.10	810098.16	900	1300	H27	27-Feb-95	1616	10	<7.0	
1226327.82	810148.16	900	1350	H28	27-Feb-95	1630	10	7.4	yes
1226328.55	810198.15	900	1400	H29	27-Feb-95	1643	10	<7.0	
1226329.27	810248.15	900	1450	H30	28-Feb-95	1652	10	11.1	
1226329.99	810298.14	900	1500	H31	1-Mar-95	806	10	41.7	yes
1226330.71	810348.14	900	1550	H32	1-Mar-95	823	10	<7.0	
1226331.43	810398.13	900	1600	H33	1-Mar-95	837	10	<7.0	
1226332.15	810448.13	900	1650	H34	1-Mar-95	923	10	<7.0	
1226332.51	810473.13	900	1675	SB21	1-Mar-95	1315	10	36.3	
1226332.87	810498.12	900	1700	H35	1-Mar-95	934	10	14.2	
1226333.59	810548.12	900	1750	H36	1-Mar-95	946	10	<7.0	
1226334.32	810598.11	900	1800	H37	1-Mar-95	1036	10	<7.0	
1226335.04	810648.11	900	1850	H38	1-Mar-95	1054	10	<7.0	
1226335.40	810673.11	900	1875	SB61	1-Mar-95	1504	10	24.1	
1226335.76	810698.10	900	1900	H39	1-Mar-95	1125	10	19.0	
1226336.48	810748.10	900	1950	H40	1-Mar-95	1145	10	12.1	
1226338.64	810898.08	900	2100	H43	22-Feb-95	1415	10	<7.0	
1226339.37	810948.08	900	2150	H44	22-Feb-95	1358	10	<7.0	
1226340.09	810998.07	900	2200	H45	22-Feb-95	1348	10	<7.0	
1226340.81	811048.07	900	2250	H46	22-Feb-95	1324	10	<7.0	
1226364.11	809197.54	950	400	I09	3-Mar-95	1455	10	<7.0	
1226365.56	809297.53	950	500	I11	3-Mar-95	1505	NA	RF	
1226367.00	809397.52	950	600	I13	3-Mar-95	1523	10	12.7	yes
1226368.44	809497.51	950	700	I15	3-Mar-95	1535	10	<7.0	
1226369.88	809597.50	950	800	I17	25-Feb-95	1108	10	<7.0	
1226370.61	809647.49	950	850	I18	25-Feb-95	1129	10	<7.0	
1226371.33	809697.49	950	900	I19	25-Feb-95	1142	10	<7.0	
1226372.05	809747.48	950	950	I20	25-Feb-95	1157	10	<7.0	
1226337.77	809797.98	915	1000	SB35	2-Mar-95	1616	10	7.4	
1226372.77	809797.47	950	1000	I21	25-Feb-95	1213	10	<7.0	
1226373.49	809847.47	950	1050	I22	25-Feb-95	1224	10	<7.0	
1226339.22	809897.97	915	1100	SB36	2-Mar-95	1601	10	10.4	yes
1226374.21	809897.46	950	1100	I23	25-Feb-95	1307	10	<7.0	
1226374.93	809947.46	950	1150	I24	25-Feb-95	1321	10	<7.0	
1226375.66	809997.45	950	1200	I25	25-Feb-95	1336	10	<7.0	
1226376.38	810047.45	950	1250	I26	27-Feb-95	1650	10	<7.0	
1226377.10	810097.44	950	1300	I27	27-Feb-95	1635	10	<7.0	
1226377.82	810147.44	950	1350	I28	27-Feb-95	1617	10	12.4	yes
1226378.54	810197.43	950	1400	I29	27-Feb-95	1557	10	<7.0	
1226379.26	810247.43	950	1450	I30	27-Feb-95	1527	10	<7.0	
1226379.98	810297.42	950	1500	I31	27-Feb-95	1512	10	58.8	yes
1226380.70	810347.42	950	1550	I32	27-Feb-95	1459	10	14.7	
1226381.43	810397.41	950	1600	I33	27-Feb-95	1441	10	<7.0	
1226382.15	810447.41	950	1650	I34	27-Feb-95	1427	10	7.4	yes
1226382.51	810472.40	950	1675	SB22	1-Mar-95	1205	10	36.3	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226382.87	810497.40	950	1700	I35	27-Feb-95	1415	10	<7.0	
1226383.59	810547.40	950	1750	I36	27-Feb-95	1401	10	<7.0	
1226384.31	810597.39	950	1800	I37	27-Feb-95	1336	10	<7.0	
1226385.03	810647.39	950	1850	I38	27-Feb-95	1252	10	<7.0	
1226385.39	810672.38	950	1875	SB60	1-Mar-95	1453	10	31.4	yes
1226385.75	810697.38	950	1900	I39	27-Feb-95	1204	10	<7.0	
1226386.48	810747.38	950	1950	I40	27-Feb-95	1153	10	<7.0	
1226388.64	810897.36	950	2100	I43	22-Feb-95	1410	10	<7.0	
1226389.36	810947.36	950	2150	I44	22-Feb-95	1354	10	<7.0	
1226390.08	810997.35	950	2200	I45	22-Feb-95	1336	10	<7.0	
1226390.80	811047.34	950	2250	I46	22-Feb-95	1322	10	<7.0	
1226419.88	809596.77	1000	800	J17	25-Feb-95	1111	9	<7.0	
1226420.60	809646.77	1000	850	J18	25-Feb-95	1127	10	<7.0	
1226421.32	809696.76	1000	900	J19	25-Feb-95	1139	10	<7.0	
1226422.04	809746.76	1000	950	J20	25-Feb-95	1155	10	<7.0	yes
1226422.76	809796.75	1000	1000	J21	25-Feb-95	1209	10	<7.0	
1226423.49	809846.75	1000	1050	J22	25-Feb-95	1222	10	<7.0	
1226424.21	809896.74	1000	1100	J23	25-Feb-95	1308	10	<7.0	
1226424.93	809946.74	1000	1150	J24	25-Feb-95	1317	10	<7.0	
1226425.65	809996.73	1000	1200	J25	25-Feb-95	1335	10	<7.0	
1226426.37	810046.73	1000	1250	J26	27-Feb-95	1556	10	<7.0	
1226427.09	810096.72	1000	1300	J27	27-Feb-95	1616	10	<7.0	
1226427.81	810146.72	1000	1350	J28	27-Feb-95	1540	10	<7.0	
1226428.54	810196.71	1000	1400	J29	27-Feb-95	1528	9	<7.0	
1226429.26	810246.71	1000	1450	J30	27-Feb-95	1514	10	<7.0	
1226429.98	810296.70	1000	1500	J31	27-Feb-95	1457	10	<7.0	
1226430.70	810346.70	1000	1550	J32	27-Feb-95	1443	10	<7.0	
1226431.42	810396.69	1000	1600	J33	27-Feb-95	1417	10	<7.0	
1226432.14	810446.69	1000	1650	J34	27-Feb-95	1404	10	43.6	
1226432.86	810496.68	1000	1700	J35	27-Feb-95	1349	10	12.4	
1226433.58	810546.68	1000	1750	J36	27-Feb-95	1332	9	<7.0	
1226433.95	810571.67	1000	1775	SB23	1-Mar-95	1417	10	9.8	
1226434.31	810596.67	1000	1800	J37	27-Feb-95	1315	10	<7.0	
1226435.03	810646.66	1000	1850	J38	27-Feb-95	1302	10	30.0	
1226435.75	810696.66	1000	1900	J39	27-Feb-95	1250	10	<7.0	
1226436.47	810746.65	1000	1950	J40	27-Feb-95	1148	10	1000	yes
1226438.27	810871.64	1000	2075	SB39	3-Mar-95	1121	10	15.1	
1226438.63	810896.64	1000	2100	J43	22-Feb-95	1419	10	<7.0	
1226439.36	810946.63	1000	2150	J44	22-Feb-95	1401	10	13.0	
1226439.72	810971.63	1000	2175	SB40	3-Mar-95	1145	10	<7.0	
1226440.08	810996.63	1000	2200	J45	22-Feb-95	1343	10	<7.0	
1226440.44	811021.63	1000	2225	SB41	3-Mar-95	1133	10	<7.0	
1226440.80	811046.62	1000	2250	J46	22-Feb-95	1327	10	<7.0	
1226464.10	809196.09	1050	400	K09	2-Mar-95	1715	10	<7.0	
1226465.55	809296.08	1050	500	K11	2-Mar-95	1700	10	<7.0	
1226466.99	809396.07	1050	600	K13	2-Mar-95	1604	NA	RF	
1226468.43	809496.06	1050	700	K15	28-Feb-95	1658	9.5	<7.0	
1226469.87	809596.05	1050	800	K17	25-Feb-95	1132	10	<7.0	
1226470.60	809646.05	1050	850	K18	25-Feb-95	1146	10	<7.0	
1226471.32	809696.04	1050	900	K19	25-Feb-95	1203	4.5	<7.0	
1226472.04	809746.04	1050	950	K20	25-Feb-95	1214	10	<7.0	
1226472.76	809796.03	1050	1000	K21	25-Feb-95	1228	10	<7.0	
1226473.48	809846.03	1050	1050	K22	25-Feb-95	1307	10	<7.0	
1226474.20	809896.02	1050	1100	K23	25-Feb-95	1320	10	<7.0	
1226474.92	809946.02	1050	1150	K24	25-Feb-95	1333	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226475.64	809996.01	1050	1200	K25	25-Feb-95	1347	10	7.1	yes
1226476.37	810046.01	1050	1250	K26	27-Feb-95	1533	10	<7.0	
1226477.09	810096.00	1050	1300	K27	27-Feb-95	1517	10	<7.0	
1226477.81	810146.00	1050	1350	K28	27-Feb-95	1503	10	<7.0	
1226478.53	810195.99	1050	1400	K29	27-Feb-95	1452	10	<7.0	
1226478.89	810220.99	1050	1425	SB37	1-Mar-95	1708	10	21.6	yes
1226479.25	810245.99	1050	1450	K30	27-Feb-95	1438	10	7.2	
1226479.97	810295.98	1050	1500	K31	27-Feb-95	1425	10	8.0	
1226480.69	810345.97	1050	1550	K32	27-Feb-95	1414	10	15.7	
1226481.42	810395.97	1050	1600	K33	27-Feb-95	1359	10	<7.0	
1226482.14	810445.96	1050	1650	K34	27-Feb-95	1330	10	14.2	
1226482.86	810495.96	1050	1700	K35	27-Feb-95	1314	10	<7.0	
1226483.58	810545.95	1050	1750	K36	27-Feb-95	1256	10	<7.0	
1226483.94	810570.95	1050	1775	SB24	1-Mar-95	1429	10	<7.0	
1226484.30	810595.95	1050	1800	K37	27-Feb-95	1201	10	<7.0	
1226485.02	810645.94	1050	1850	K38	27-Feb-95	1149	10	8.3	
1226485.74	810695.94	1050	1900	K39	27-Feb-95	1138	10	<7.0	
1226486.46	810745.93	1050	1950	K40	27-Feb-95	1128	10	<7.0	
1226488.27	810870.92	1050	2075	SB42	3-Mar-95	1208	10	12.8	
1226488.63	810895.92	1050	2100	K43	22-Feb-95	1437	10	<7.0	
1226488.99	810920.91	1050	2125	SB43	3-Mar-95	1158	10	<7.0	
1226489.35	810945.91	1050	2150	K44	22-Feb-95	1501	10	7.1	
1226490.07	810995.91	1050	2200	K45	22-Feb-95	1519	10	<7.0	
1226490.79	811045.90	1050	2250	K46	22-Feb-95	1540	10	<7.0	
1226522.75	809795.31	1100	1000	L21	25-Feb-95	1450	10	<7.0	
1226523.48	809845.31	1100	1050	L22	25-Feb-95	1440	10	<7.0	
1226524.20	809895.30	1100	1100	L23	25-Feb-95	1436	10	<7.0	
1226524.92	809945.30	1100	1150	L24	25-Feb-95	1415	10	<7.0	
1226525.64	809995.29	1100	1200	L25	25-Feb-95	1403	10	<7.0	
1226526.36	810045.28	1100	1250	L26	25-Feb-95	1348	10	<7.0	
1226527.08	810095.28	1100	1300	L27	27-Feb-95	857	10	<7.0	
1226527.80	810145.27	1100	1350	L28	27-Feb-95	911	10	9.3	
1226528.52	810195.27	1100	1400	L29	27-Feb-95	924	10	<7.0	
1226528.89	810220.27	1100	1425	SB80	1-Mar-95	1720	10	19.8	
1226529.25	810245.26	1100	1450	L30	27-Feb-95	937	10	<7.0	
1226529.97	810295.26	1100	1500	L31	27-Feb-95	950	10	8.7	
1226530.69	810345.25	1100	1550	L32	27-Feb-95	1003	10	19.5	
1226531.41	810395.25	1100	1600	L33	27-Feb-95	1016	10	<7.0	
1226532.13	810445.24	1100	1650	L34	27-Feb-95	1031	10	12.5	
1226532.85	810495.24	1100	1700	L35	27-Feb-95	1042	9	<7.0	
1226533.57	810545.23	1100	1750	L36	27-Feb-95	1057	10	<7.0	
1226534.30	810595.23	1100	1800	L37	27-Feb-95	1111	10	<7.0	
1226535.02	810645.22	1100	1850	L38	27-Feb-95	1122	10	<7.0	
1226535.74	810695.22	1100	1900	L39	27-Feb-95	1134	10	<7.0	
1226538.62	810895.20	1100	2100	L43	22-Feb-95	1425	10	<7.0	
1226538.98	810920.19	1100	2125	SB44	1-Mar-95	1528	10	<7.0	
1226539.34	810945.19	1100	2150	L44	22-Feb-95	1440	10	<7.0	
1226540.07	810995.19	1100	2200	L45	22-Feb-95	1506	10	<7.0	
1226540.79	811045.18	1100	2250	L46	22-Feb-95	1526	10	<7.0	
1226564.09	809194.65	1150	400	M09	28-Feb-95	1514	10	<7.0	
1226565.54	809294.64	1150	500	M11	28-Feb-95	1532	10	<7.0	
1226566.98	809394.63	1150	600	M13	28-Feb-95	1554	4	<7.0	yes/RF
1226568.42	809494.62	1150	700	M15	28-Feb-95	1611	10	<7.0	
1226569.86	809594.61	1150	800	M17	28-Feb-95	1638	10	<7.0	
1226571.67	809719.60	1150	925	SB8	2-Mar-95	1017	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226572.75	809794.59	1150	1000	M21	25-Feb-95	1509	10	<7.0	
1226573.47	809844.58	1150	1050	M22	25-Feb-95	1452	10	<7.0	
1226574.19	809894.58	1150	1100	M23	25-Feb-95	1437	10	<7.0	
1226574.91	809944.57	1150	1150	M24	25-Feb-95	1423	10	<7.0	
1226575.63	809994.57	1150	1200	M25	25-Feb-95	1404	10	11.6	yes
1226576.36	810044.56	1150	1250	M26	25-Feb-95	1352	10	<7.0	
1226577.08	810094.56	1150	1300	M27	27-Feb-95	844	10	<7.0	
1226577.80	810144.55	1150	1350	M28	27-Feb-95	857	10	16.0	yes
1226578.52	810194.55	1150	1400	M29	27-Feb-95	911	10	<7.0	
1226579.24	810244.54	1150	1450	M30	27-Feb-95	925	10	11.4	
1226579.96	810294.54	1150	1500	M31	27-Feb-95	942	10	<7.0	
1226580.68	810344.53	1150	1550	M32	27-Feb-95	955	10	<7.0	
1226581.40	810394.53	1150	1600	M33	27-Feb-95	1010	10	<7.0	
1226582.13	810444.52	1150	1650	M34	27-Feb-95	1025	10	<7.0	
1226582.85	810494.52	1150	1700	M35	27-Feb-95	1045	10	<7.0	
1226583.57	810544.51	1150	1750	M36	27-Feb-95	1058	10	<7.0	
1226584.29	810594.51	1150	1800	M37	27-Feb-95	1112	10	<7.0	
1226585.01	810644.50	1150	1850	M38	27-Feb-95	1124	10	<7.0	
1226585.73	810694.50	1150	1900	M39	27-Feb-95	1137	10	<7.0	
1226588.62	810894.47	1150	2100	M43	22-Feb-95	1435	10	32.9	yes
1226589.34	810944.47	1150	2150	M44	22-Feb-95	1515	10	14.4	
1226590.06	810994.46	1150	2200	M45	22-Feb-95	1534	10	<7.0	
1226590.78	811044.46	1150	2250	M46	22-Feb-95	1544	10	<7.0	
1226618.78	809518.90	1200	725	SG10	2-Mar-95	1247	10	9.4	
1226620.58	809643.88	1200	850	SG11	2-Mar-95	1212	10	11.2	yes
1226622.74	809793.87	1200	1000	N21	25-Feb-95	1505	10	<7.0	
1226623.46	809843.86	1200	1050	N22	25-Feb-95	1455	10	<7.0	
1226624.19	809893.86	1200	1100	N23	25-Feb-95	1440	10	9.2	
1226624.91	809943.85	1200	1150	N24	25-Feb-95	1430	10	<7.0	
1226625.63	809993.85	1200	1200	N25	25-Feb-95	1416	10	<7.0	
1226626.35	810043.84	1200	1250	N26	25-Feb-95	1402	10	<7.0	
1226627.07	810093.84	1200	1300	N27	27-Feb-95	829	10	<7.0	
1226627.79	810143.83	1200	1350	N28	27-Feb-95	841	10	8.4	
1226628.51	810193.83	1200	1400	N29	27-Feb-95	853	10	<7.0	
1226629.24	810243.82	1200	1450	N30	27-Feb-95	904	10	<7.0	
1226629.96	810293.82	1200	1500	N31	27-Feb-95	916	10	<7.0	
1226630.68	810343.81	1200	1550	N32	27-Feb-95	927	10	<7.0	
1226631.40	810393.81	1200	1600	N33	27-Feb-95	939	10	<7.0	
1226632.12	810443.80	1200	1650	N34	27-Feb-95	956	10	11.4	
1226632.84	810493.80	1200	1700	N35	27-Feb-95	1008	10	<7.0	
1226633.56	810543.79	1200	1750	N36	27-Feb-95	1031	10	<7.0	
1226634.29	810593.78	1200	1800	N37	27-Feb-95	1042	10	<7.0	
1226635.01	810643.78	1200	1850	N38	27-Feb-95	1053	10	<7.0	
1226635.73	810693.77	1200	1900	N39	27-Feb-95	1116	10	9.3	
1226638.61	810893.75	1200	2100	N43	22-Feb-95	1635	10	22.3	
1226638.90	810913.75	1200	2120	SB45	1-Mar-95	1512	10	29.0	
1226639.33	810943.75	1200	2150	N44	22-Feb-95	1612	10	50.0	yes
1226640.06	810993.74	1200	2200	N45	22-Feb-95	1553	10	<7.0	
1226640.78	811043.74	1200	2250	N46	22-Feb-95	1600	10	<7.0	
1226663.36	809143.21	1250	350	O08	2-Mar-95	1408	10	<7.0	
1226664.08	809193.21	1250	400	O09	28-Feb-95	1457	10	<7.0	
1226665.53	809293.20	1250	500	O11	28-Feb-95	1438	10	<7.0	
1226666.25	809343.19	1250	550	O12	2-Mar-95	1252	NA	RF	
1226666.97	809393.19	1250	600	O13	28-Feb-95	1418	10	<7.0	
1226667.69	809443.18	1250	650	O14	2-Mar-95	1313	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226668.41	809493.18	1250	700	O15	28-Feb-95	1401	10	<7.0	yes
1226669.13	809543.17	1250	750	O16	2-Mar-95	1237	10	8.0	
1226669.85	809593.17	1250	800	O17	28-Feb-95	1344	10	<7.0	
1226672.74	809793.15	1250	1000	O21	25-Feb-95	1503	10	<7.0	
1226673.46	809843.14	1250	1050	O22	25-Feb-95	1513	10	<7.0	
1226674.18	809893.14	1250	1100	O23	25-Feb-95	1523	10	<7.0	
1226674.90	809943.13	1250	1150	O24	25-Feb-95	1538	10	<7.0	
1226675.26	809968.13	1250	1175	SB81	1-Mar-95	1526	10	26.8	yes
1226675.62	809993.13	1250	1200	O25	25-Feb-95	1551	10	<7.0	
1226676.35	810043.12	1250	1250	O26	25-Feb-95	1604	10	<7.0	
1226677.07	810093.12	1250	1300	O27	25-Feb-95	1615	10	10.2	
1226677.79	810143.11	1250	1350	O28	27-Feb-95	843	10	7.0	
1226678.51	810193.11	1250	1400	O29	27-Feb-95	828	10	<7.0	
1226679.23	810243.10	1250	1450	O30	27-Feb-95	816	10	<7.0	
1226679.95	810293.09	1250	1500	O31	27-Feb-95	802	10	<7.0	
1226680.67	810343.09	1250	1550	O32	27-Feb-95	745	10	<7.0	
1226681.39	810393.08	1250	1600	O33	26-Feb-95	1559	10	<7.0	
1226681.76	810418.08	1250	1625	SB69	2-Mar-95	1014	10	40.1	
1226682.12	810443.08	1250	1650	O34	26-Feb-95	1544	6	37	yes
1226682.84	810493.07	1250	1700	O35	26-Feb-95	1530	8	<7.0	
1226683.56	810543.07	1250	1750	O36	26-Feb-95	1515	8	<7.0	
1226684.28	810593.06	1250	1800	O37	26-Feb-95	1455	10	7.1	
1226685.00	810643.06	1250	1850	O38	26-Feb-95	1443	10	<7.0	
1226685.72	810693.05	1250	1900	O39	26-Feb-95	1431	10	16.2	yes
1226687.89	810843.04	1250	2050	O42	23-Feb-95	741	10	23.4	yes
1226688.61	810893.03	1250	2100	O43	22-Feb-95	1653	10	17.5	
1226689.33	810943.03	1250	2150	O44	23-Feb-95	738	10	<7.0	
1226690.05	810993.02	1250	2200	O45	22-Feb-95	1700	NA	RF	
1226690.77	811043.02	1250	2250	O46	22-Feb-95	1622	10	<7.0	
1226717.68	809442.46	1300	650	SG9	1-Mar-95	1654	10	<7.0	
1226722.73	809792.43	1300	1000	P21	25-Feb-95	1516	10	<7.0	
1226723.45	809842.42	1300	1050	P22	25-Feb-95	1531	10	<7.0	
1226723.82	809867.42	1300	1075	SB89	1-Mar-95	1510	10	<7.0	
1226724.18	809892.41	1300	1100	P23	25-Feb-95	1544	10	<7.0	
1226724.90	809942.41	1300	1150	P24	25-Feb-95	1558	10	<7.0	
1226725.62	809992.40	1300	1200	P25	25-Feb-95	1613	10	<7.0	
1226726.34	810042.40	1300	1250	P26	25-Feb-95	1625	10	<7.0	
1226727.06	810092.39	1300	1300	P27	25-Feb-95	1640	10	9.0	yes
1226727.78	810142.39	1300	1350	P28	27-Feb-95	829	10	<7.0	
1226728.50	810192.38	1300	1400	P29	27-Feb-95	816	10	<7.0	
1226729.23	810242.38	1300	1450	P30	27-Feb-95	800	10	<7.0	
1226729.95	810292.37	1300	1500	P31	27-Feb-95	747	10	<7.0	
1226730.31	810317.37	1300	1525	SB70	3-Mar-95	1036	10	7.3	
1226730.67	810342.37	1300	1550	P32	26-Feb-95	1546	10	<7.0	
1226731.39	810392.36	1300	1600	P33	26-Feb-95	1534	10	<7.0	
1226731.75	810417.36	1300	1625	SB68	3-Mar-95	1002	10	25	
1226732.11	810442.36	1300	1650	P34	26-Feb-95	1522	10	20.9	
1226732.83	810492.35	1300	1700	P35	26-Feb-95	1511	10	<7.0	
1226733.55	810542.35	1300	1750	P36	26-Feb-95	1454	10	<7.0	
1226734.27	810592.34	1300	1800	P37	26-Feb-95	1443	10	34.7	yes
1226735.00	810642.34	1300	1850	P38	26-Feb-95	1433	10	<7.0	
1226735.72	810692.33	1300	1900	P39	26-Feb-95	1424	10	7.2	
1226737.88	810842.32	1300	2050	P42	23-Feb-95	759	10	13.2	
1226738.60	810892.31	1300	2100	P43	23-Feb-95	738	10	32.4	
1226739.32	810942.31	1300	2150	P44	22-Feb-95	1656	10	16.3	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226740.05	810992.30	1300	2200	P45	22-Feb-95	1644	10	7.4	
1226740.77	811042.30	1300	2250	P46	22-Feb-95	1624	10	<7.0	
1226763.35	809141.77	1350	350	Q08	28-Feb-95	1136	10	<7.0	
1226764.79	809241.76	1350	450	Q10	28-Feb-95	1151	10	<7.0	
1226766.24	809341.75	1350	550	Q12	28-Feb-95	1212	10	<7.0	
1226767.68	809441.74	1350	650	Q14	28-Feb-95	1229	10	<7.0	
1226769.12	809541.73	1350	750	Q16	28-Feb-95	1250	9.5	<7.0	
1226771.65	809716.71	1350	925	SB9	1-Mar-95	1624	10	8.3	
1226772.73	809791.70	1350	1000	Q21	25-Feb-95	1503	10	<7.0	
1226773.45	809841.70	1350	1050	Q22	25-Feb-95	1535	10	<7.0	
1226773.81	809866.70	1350	1075	SB88	1-Mar-95	1449	10	18.2	
1226774.17	809891.69	1350	1100	Q23	25-Feb-95	1549	10	<7.0	
1226774.89	809941.69	1350	1150	Q24	25-Feb-95	1604	10	<7.0	
1226775.25	809966.69	1350	1175	SB82	1-Mar-95	1547	10	7.8	
1226775.61	809991.68	1350	1200	Q25	25-Feb-95	1621	10	<7.0	
1226776.33	810041.68	1350	1250	Q26	25-Feb-95	1635	10	<7.0	
1226777.06	810091.67	1350	1300	Q27	25-Feb-95	1652	10	<7.0	
1226777.78	810141.67	1350	1350	Q28	27-Feb-95	816	10	7.1	
1226778.50	810191.66	1350	1400	Q29	27-Feb-95	803	10	<7.0	
1226779.22	810241.66	1350	1450	Q30	27-Feb-95	751	10	<7.0	
1226779.94	810291.65	1350	1500	Q31	27-Feb-95	738	10	<7.0	
1226780.66	810341.65	1350	1550	Q32	26-Feb-95	1559	10	<7.0	
1226781.38	810391.64	1350	1600	Q33	26-Feb-95	1610	10	<7.0	
1226781.74	810416.64	1350	1625	SB67	3-Mar-95	946	10	<7.0	
1226782.11	810441.64	1350	1650	Q34	26-Feb-95	1603	10	<7.0	
1226782.83	810491.63	1350	1700	Q35	26-Feb-95	1545	10	<7.0	
1226783.55	810541.63	1350	1750	Q36	26-Feb-95	1526	10	<7.0	
1226784.27	810591.62	1350	1800	Q37	26-Feb-95	1509	10	19.8	
1226784.99	810641.62	1350	1850	Q38	26-Feb-95	1454	10	<7.0	
1226785.71	810691.61	1350	1900	Q39	26-Feb-95	1415	10	<7.0	yes
1226787.88	810841.59	1350	2050	Q42	23-Feb-95	751	10	10.3	
1226788.60	810891.59	1350	2100	Q43	23-Feb-95	804	10	19.6	
1226789.32	810941.58	1350	2150	Q44	23-Feb-95	818	10	<7.0	
1226790.04	810991.58	1350	2200	Q45	23-Feb-95	831	10	7.4	yes
1226790.76	811041.57	1350	2250	Q46	23-Feb-95	846	10	<7.0	
1226809.74	808891.08	1400	100	R03	25-Feb-95	803	10	<7.0	
1226811.18	808991.07	1400	200	R05	25-Feb-95	820	10	<7.0	yes
1226812.62	809091.06	1400	300	R07	25-Feb-95	837	10	<7.0	
1226818.76	809516.01	1400	725	SG8	1-Mar-95	1641	10	<7.0	
1226822.72	809790.98	1400	1000	R21	25-Feb-95	1724	10	<7.0	
1226823.44	809840.98	1400	1050	R22	25-Feb-95	1710	10	<7.0	
1226823.80	809865.97	1400	1075	SB87	1-Mar-95	1432	10	18.9	
1226824.17	809890.97	1400	1100	R23	25-Feb-95	1707	10	<7.0	
1226824.89	809940.97	1400	1150	R24	25-Feb-95	1708	10	<7.0	
1226825.25	809965.96	1400	1175	SB83	1-Mar-95	1604	10	<7.0	
1226825.61	809990.96	1400	1200	R25	25-Feb-95	1659	10	<7.0	
1226826.33	810040.96	1400	1250	R26	25-Feb-95	1658	10	<7.0	
1226827.05	810090.95	1400	1300	R27	25-Feb-95	1644	10	<7.0	
1226827.77	810140.95	1400	1350	R28	24-Feb-95	1546	10	<7.0	
1226828.49	810190.94	1400	1400	R29	24-Feb-95	1605	10	<7.0	
1226829.21	810240.94	1400	1450	R30	24-Feb-95	1618	10	<7.0	
1226829.94	810290.93	1400	1500	R31	24-Feb-95	1633	10	<7.0	
1226830.66	810340.93	1400	1550	R32	24-Feb-95	1652	10	<7.0	
1226831.38	810390.92	1400	1600	R33	24-Feb-95	1708	10	29.0	yes
1226831.74	810415.92	1400	1625	SB66	3-Mar-95	931	10	7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226832.10	810440.92	1400	1650	R34	24-Feb-95	1714	10	<7.0	
1226832.82	810490.91	1400	1700	R35	24-Feb-95	1658	10	<7.0	
1226833.54	810540.90	1400	1750	R36	24-Feb-95	1646	10	<7.0	
1226834.26	810590.90	1400	1800	R37	24-Feb-95	1635	10	17.8	
1226834.99	810640.89	1400	1850	R38	24-Feb-95	1604	10	<7.0	
1226835.42	810670.89	1400	1880	SB59	1-Mar-95	1705	10	<7.0	
1226837.87	810840.87	1400	2050	R42	23-Feb-95	759	10	11.1	
1226838.59	810890.87	1400	2100	R43	23-Feb-95	818	10	14.4	yes
1226839.31	810940.86	1400	2150	R44	23-Feb-95	834	10	<7.0	
1226840.03	810990.86	1400	2200	R45	23-Feb-95	849	10	<7.0	
1226840.76	811040.85	1400	2250	R46	23-Feb-95	905	10	15.4	yes
1226863.34	809140.33	1450	350	S08	28-Feb-95	1116	10	<7.0	
1226864.78	809240.32	1450	450	S10	28-Feb-95	1100	10	<7.0	
1226866.23	809340.31	1450	550	S12	28-Feb-95	1044	10	<7.0	
1226867.67	809440.30	1450	650	S14	28-Feb-95	1029	10	<7.0	
1226869.11	809540.29	1450	750	S16	28-Feb-95	1013	10	<7.0	
1226872.72	809790.26	1450	1000	S21	26-Feb-95	742	10	<7.0	
1226873.44	809840.26	1450	1050	S22	26-Feb-95	740	10	<7.0	
1226874.16	809890.25	1450	1100	S23	26-Feb-95	924	10	<7.0	
1226874.52	809915.25	1450	1125	SB86	1-Mar-95	1416	10	<7.0	yes
1226874.88	809940.25	1450	1150	S24	26-Feb-95	1013	10	13.7	
1226875.60	809990.24	1450	1200	S25	26-Feb-95	939	10	<7.0	
1226876.32	810040.24	1450	1250	S26	26-Feb-95	1018	10	<7.0	
1226877.05	810090.23	1450	1300	S27	26-Feb-95	835	14.5	7.0	yes
1226877.77	810140.22	1450	1350	S28	26-Feb-95	1407	10	<7.0	
1226878.49	810190.22	1450	1400	S29	24-Feb-95	1500	10	<7.0	
1226879.21	810240.21	1450	1450	S30	24-Feb-95	1517	10	<7.0	
1226879.93	810290.21	1450	1500	S31	25-Feb-95	1552	10	<7.0	
1226880.65	810340.20	1450	1550	S32	24-Feb-95	1612	10	<7.0	
1226881.37	810390.20	1450	1600	S33	24-Feb-95	1629	10	30.9	
1226882.10	810440.19	1450	1650	S34	24-Feb-95	1646	10	8.4	
1226882.82	810490.19	1450	1700	S35	24-Feb-95	1707	10	<7.0	
1226883.54	810540.18	1450	1750	S36	24-Feb-95	1724	10	<7.0	
1226883.90	810565.18	1450	1775	SB57	3-Mar-95	1049	10	25.7	yes
1226884.26	810590.18	1450	1800	S37	24-Feb-95	1623	10	10	
1226884.98	810640.17	1450	1850	S38	24-Feb-95	1614	10	<7.0	
1226885.41	810670.17	1450	1880	SB58	1-Mar-95	1654	10	16.3	
1226887.14	810790.16	1450	2000	S41	23-Feb-95	817	10	<7.0	
1226887.51	810815.15	1450	2025	SB46	1-Mar-95	1450	10	21.3	yes
1226887.87	810840.15	1450	2050	S42	23-Feb-95	830	10	12.1	
1226888.23	810865.15	1450	2075	SB47	1-Mar-95	1424	10	28.3	
1226888.59	810890.15	1450	2100	S43	23-Feb-95	844	10	<7.0	
1226889.31	810940.14	1450	2150	S44	23-Feb-95	856	10	<7.0	
1226890.03	810990.14	1450	2200	S45	23-Feb-95	914	10	11.1	
1226890.75	811040.13	1450	2250	S46	23-Feb-95	925	10	8.6	
1226909.73	808889.63	1500	100	T03	28-Feb-95	757	10	<7.0	
1226911.17	808989.62	1500	200	T05	25-Feb-95	909	10	<7.0	
1226912.61	809089.61	1500	300	T07	25-Feb-95	854	10	<7.0	
1226921.63	809714.55	1500	925	SB10	1-Mar-95	1318	10	10.4	yes
1226922.71	809789.54	1500	1000	T21	26-Feb-95	812	10	<7.0	
1226923.43	809839.53	1500	1050	T22	26-Feb-95	753	10	<7.0	
1226924.16	809889.53	1500	1100	T23	26-Feb-95	909	10	<7.0	
1226924.52	809914.53	1500	1125	SB85	1-Mar-95	1358	10	<7.0	
1226924.88	809939.52	1500	1150	T24	26-Feb-95	1001	10	<7.0	
1226925.60	809989.52	1500	1200	T25	26-Feb-95	952	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226927.76	810139.50	1500	1350	T26	26-Feb-95	1039	10	7.6	
1226927.04	810089.51	1500	1300	T27	26-Feb-95	907	14.5	14.3	
1226927.76	810139.50	1500	1350	T28	26-Feb-95	1352	10	<7.0	
1226578.16	810169.55	1150	1375	SB77	2-Mar-95	947	10	11.5	yes
1226928.48	810189.50	1500	1400	T29	24-Feb-95	1401	10	<7.0	
1226929.20	810239.49	1500	1450	T30	24-Feb-95	1415	10	<7.0	
1226929.93	810289.49	1500	1500	T31	24-Feb-95	1441	11	<7.0	
1226930.65	810339.48	1500	1550	T32	24-Feb-95	1431	10	<7.0	yes
1226931.37	810389.48	1500	1600	T33	24-Feb-95	1443	10	20.4	
1226931.73	810414.47	1500	1625	SB65	3-Mar-95	917	10	39.5	yes
1226932.09	810439.47	1500	1650	T34	24-Feb-95	1459	10	18.2	
1226932.81	810489.47	1500	1700	T35	24-Feb-95	1510	10	<7.0	yes/RF
1226933.53	810539.46	1500	1750	T36	24-Feb-95	1526	10	<7.0	
1226933.89	810564.46	1500	1775	SB56	3-Mar-95	1103	10	29.7	
1226934.25	810589.46	1500	1800	T37	24-Feb-95	1539	10	8.3	
1226934.98	810639.45	1500	1850	T38	24-Feb-95	1549	10	9.0	
1226937.14	810789.44	1500	2000	T41	23-Feb-95	1024	10	<7.0	
1226937.86	810839.43	1500	2050	T42	23-Feb-95	1008	10	8.2	
1226938.22	810864.43	1500	2075	SB48	1-Mar-95	1402	10	22.7	
1226938.58	810889.43	1500	2100	T43	23-Feb-95	1011	10	16.4	
1226938.94	810914.42	1500	2125	SB49	1-Mar-95	1148	10	23.3	
1226939.30	810939.42	1500	2150	T44	23-Feb-95	935	10	<7.0	
1226940.02	810989.42	1500	2200	T45	23-Feb-95	917	10	9.0	
1226940.75	811039.41	1500	2250	T46	23-Feb-95	905	10	18.7	yes
1226963.33	809138.89	1550	350	U08	28-Feb-95	830	10	<7.0	
1226964.77	809238.88	1550	450	U10	28-Feb-95	855	10	<7.0	yes
1226966.22	809338.87	1550	550	U12	28-Feb-95	914	10	7.3	yes
1226967.66	809438.86	1550	650	U14	28-Feb-95	934	10	<7.0	
1226969.10	809538.84	1550	750	U16	28-Feb-95	951	10	<7.0	
1226972.71	809788.82	1550	1000	U21	26-Feb-95	827	10	<7.0	
1226973.43	809838.81	1550	1050	U22	26-Feb-95	810	10	<7.0	
1226974.15	809888.81	1550	1100	U23	26-Feb-95	857	10	<7.0	
1226974.51	809913.81	1550	1125	SB84	1-Mar-95	1341	10	<7.0	
1226974.87	809938.80	1550	1150	U24	26-Feb-95	950	10	<7.0	
1226975.59	809988.80	1550	1200	U25	26-Feb-95	1008	10	<7.0	
1226976.31	810038.79	1550	1250	U26	26-Feb-95	1049	10	<7.0	
1226976.67	810063.79	1550	1275	SB79	2-Mar-95	901	10	<7.0	
1226977.04	810088.79	1550	1300	U27	26-Feb-95	1000	14.5	<7.0	
1226977.76	810138.78	1550	1350	U28	26-Feb-95	1337	10	<7.0	
1226978.12	810163.78	1550	1375	SB76	2-Mar-95	912	10	<7.0	
1226978.48	810188.78	1550	1400	U29	24-Feb-95	1529	10	<7.0	
1226979.20	810238.77	1550	1450	U30	24-Feb-95	1512	10	<7.0	
1226979.56	810263.77	1550	1475	SB71	3-Mar-95	755	10	<7.0	
1226979.92	810288.77	1550	1500	U31	24-Feb-95	1454	10	<7.0	
1226980.64	810338.76	1550	1550	U32	24-Feb-95	1442	10	<7.0	
1226981.36	810388.76	1550	1600	U33	24-Feb-95	1416	10	<7.0	
1226982.08	810438.75	1550	1650	U34	24-Feb-95	1354	10	<7.0	
1226982.81	810488.75	1550	1700	U35	24-Feb-95	1342	10	<7.0	
1226983.53	810538.74	1550	1750	U36	24-Feb-95	1329	10	<7.0	
1226984.25	810588.74	1550	1800	U37	24-Feb-95	1316	10	22.4	yes
1226984.97	810638.73	1550	1850	U38	24-Feb-95	1223	10	9.0	
1226987.13	810788.71	1550	2000	U41	23-Feb-95	1040	10	7.8	
1226987.86	810838.71	1550	2050	U42	23-Feb-95	1023	10	<7.0	
1226988.58	810888.70	1550	2100	U43	23-Feb-95	1007	10	41.5	yes
1226988.94	810913.70	1550	2125	SB50	1-Mar-95	1136	10	18.5	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1226989.30	810938.70	1550	2150	U44	23-Feb-95	1005	10	<7.0	
1226990.02	810988.69	1550	2200	U45	23-Feb-95	937	10	<7.0	
1226990.74	811038.69	1550	2250	U46	23-Feb-95	922	10	<7.0	
1227022.70	809788.10	1600	1000	V21	26-Feb-95	840	10	<7.0	
1227023.42	809838.09	1600	1050	V22	26-Feb-95	825	10	<7.0	
1227024.14	809888.09	1600	1100	V23	26-Feb-95	842	10	<7.0	
1227024.87	809938.08	1600	1150	V24	26-Feb-95	932	10	<7.0	
1227025.59	809988.08	1600	1200	V25	26-Feb-95	1020	10	<7.0	
1227026.31	810038.07	1600	1250	V26	26-Feb-95	1000	10	<7.0	
1227026.67	810063.07	1600	1275	SB78	2-Mar-95	837	10	<7.0	
1227027.03	810088.07	1600	1300	V27	26-Feb-95	1033	14.5	<7.0	
1227027.75	810138.06	1600	1350	V28	26-Feb-95	1323	10	<7.0	
1227028.47	810188.06	1600	1400	V29	26-Feb-95	1405	10	<7.0	
1227029.19	810238.05	1600	1450	V30	24-Feb-95	1423	10	<7.0	
1227028.83	810213.05	1600	1425	SB72	3-Mar-95	808	10	<7.0	
1227029.92	810288.05	1600	1500	V31	24-Feb-95	1406	10	<7.0	
1227030.64	810338.04	1600	1550	V32	24-Feb-95	1352	10	<7.0	
1227031.36	810388.03	1600	1600	V33	24-Feb-95	1338	10	<7.0	
1227032.08	810438.03	1600	1650	V34	24-Feb-95	1324	10	<7.0	
1227032.80	810488.02	1600	1700	V35	24-Feb-95	1218	10	<7.0	
1227033.52	810538.02	1600	1750	V36	24-Feb-95	1204	10	<7.0	
1227034.24	810588.01	1600	1800	V37	24-Feb-95	1144	10	10.6	
1227034.96	810638.01	1600	1850	V38	24-Feb-95	1129	10	34.4	yes
1227037.13	810787.99	1600	2000	V41	23-Feb-95	1116	11	<7.0	yes
1227037.85	810837.99	1600	2050	V42	23-Feb-95	1102	8.5	<7.0	
1227038.57	810887.98	1600	2100	V43	23-Feb-95	1039	10	28.9	yes
1227038.93	810912.98	1600	2125	SB51	1-Mar-95	1117	10	14.7	
1227039.29	810937.98	1600	2150	V44	23-Feb-95	1023	10	<7.0	
1227040.01	810987.97	1600	2200	V45	23-Feb-95	1003	10	<7.0	yes
1227040.74	811037.97	1600	2250	V46	23-Feb-95	947	10	<7.0	
1227074.86	809937.36	1650	1150	W24	26-Feb-95	918	10	<7.0	
1227075.58	809987.36	1650	1200	W25	26-Feb-95	1040	10	<7.0	
1227076.30	810037.35	1650	1250	W26	26-Feb-95	1103	10	<7.0	
1227077.02	810087.34	1650	1300	W27	26-Feb-95	1059	10	<7.0	
1227077.75	810137.34	1650	1350	W28	26-Feb-95	1305	10	<7.0	
1227078.47	810187.33	1650	1400	W29	26-Feb-95	1353	10	<7.0	
1227079.19	810237.33	1650	1450	W30	24-Feb-95	1344	10	<7.0	
1227078.76	810207.33	1650	1420	SB73	3-Mar-95	822	10	32.2	yes
1227079.91	810287.32	1650	1500	W31	24-Feb-95	1332	10	14.1	
1227080.63	810337.32	1650	1550	W32	24-Feb-95	1320	10	<7.0	
1227081.35	810387.31	1650	1600	W33	26-Feb-95	1217	10	<7.0	
1226781.74	810416.64	1650	1625	SB67	3-Mar-95	946	10	<7.0	
1227082.07	810437.31	1650	1650	W34	24-Feb-95	1204	10	<7.0	
1227082.80	810487.30	1650	1700	W35	24-Feb-95	1151	10	<7.0	
1227083.52	810537.30	1650	1750	W36	24-Feb-95	1132	10	7.8	
1227084.24	810587.29	1650	1800	W37	24-Feb-95	1130	10	10.4	
1227084.96	810637.29	1650	1850	W38	25-Feb-95	1100	10	<7.0	
1227087.12	810787.27	1650	2000	W41	23-Feb-95	1040	10	<7.0	
1227087.84	810837.27	1650	2050	W42	23-Feb-95	1055	10	17.0	
1227088.57	810887.26	1650	2100	W43	23-Feb-95	1112	8.5	<7.0	
1227089.29	810937.26	1650	2150	W44	23-Feb-95	1127	10	<7.0	
1227090.01	810987.25	1650	2200	W45	23-Feb-95	1143	10	<7.0	
1227090.73	811037.25	1650	2250	W46	23-Feb-95	1156	10	<7.0	
1227114.47	809216.71	1700	430	SG7	1-Mar-95	1120	10	<7.0	yes
1227124.86	809936.64	1700	1150	X24	26-Feb-95	906	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1227125.58	809986.63	1700	1200	X25	26-Feb-95	1056	10	<7.0	
1227126.30	810036.63	1700	1250	X26	26-Feb-95	1122	10	<7.0	yes
1227127.02	810086.62	1700	1300	X27	26-Feb-95	1118	10	<7.0	
1227127.74	810136.62	1700	1350	X28	26-Feb-95	1251	10	<7.0	
1227128.46	810186.61	1700	1400	X29	26-Feb-95	1343	10	<7.0	
1227129.18	810236.61	1700	1450	X30	24-Feb-95	1019	10	<7.0	
1227128.75	810206.61	1700	1420	SB74	3-Mar-95	847	10	27.0	
1227129.91	810286.60	1700	1500	X31	24-Feb-95	1035	10	<7.0	
1227130.63	810336.60	1700	1550	X32	24-Feb-95	1050	10	<7.0	
1227131.35	810386.59	1700	1600	X33	24-Feb-95	1105	10	<7.0	
1227132.07	810436.59	1700	1650	X34	24-Feb-95	1128	10	<7.0	
1227132.79	810486.58	1700	1700	X35	24-Feb-95	1143	10	<7.0	
1227133.51	810536.58	1700	1750	X36	24-Feb-95	1157	10	8.0	
1227134.23	810586.57	1700	1800	X37	24-Feb-95	1209	10	<7.0	
1227137.12	810786.55	1700	2000	X41	23-Feb-95	1057	10	<7.0	
1227137.84	810836.55	1700	2050	X42	23-Feb-95	1114	10	<7.0	
1227138.56	810886.54	1700	2100	X43	23-Feb-95	1130	10	<7.0	
1227139.28	810936.53	1700	2150	X44	23-Feb-95	1147	10	<7.0	
1227140.00	810986.53	1700	2200	X45	23-Feb-95	1207	10	<7.0	
1227140.73	811036.52	1700	2250	X46	23-Feb-95	1223	10	<7.0	
1227164.39	809210.99	1750	425	SG6	1-Mar-95	1103	9	<7.0	
1227169.44	809560.96	1750	775	SB11	2-Mar-95	812	10	<7.0	
1227174.85	809935.92	1750	1150	Y24	26-Feb-95	854	10	<7.0	
1227175.57	809985.91	1750	1200	Y25	26-Feb-95	1108	10	<7.0	
1227176.29	810035.91	1750	1250	Y26	26-Feb-95	1135	10	<7.0	
1227177.01	810085.90	1750	1300	Y27	26-Feb-95	1135	10	<7.0	
1227177.74	810135.90	1750	1350	Y28	26-Feb-95	1159	10	<7.0	
1227178.46	810185.89	1750	1400	Y29	26-Feb-95	1331	10	<7.0	
1227179.18	810235.89	1750	1450	Y30	26-Feb-95	1404	10	<7.0	
1227179.90	810285.88	1750	1500	Y31	24-Feb-95	853	10	<7.0	
1227180.62	810335.88	1750	1550	Y32	24-Feb-95	907	10	<7.0	
1227181.34	810385.87	1750	1600	Y33	24-Feb-95	926	10	<7.0	
1227182.06	810435.87	1750	1650	Y34	24-Feb-95	940	10	<7.0	
1227182.79	810485.86	1750	1700	Y35	24-Feb-95	1002	10	<7.0	
1227183.51	810535.86	1750	1750	Y36	24-Feb-95	1022	10	<7.0	
1227184.23	810585.85	1750	1800	Y37	24-Feb-95	1037	10	13.9	
1227184.95	810635.84	1750	1850	Y38	24-Feb-95	1051	10	8.2	
1227185.67	810685.84	1750	1900	Y39	24-Feb-95	1112	10	<7.0	
1227186.39	810735.83	1750	1950	Y40	23-Feb-95	1137	10	<7.0	
1227186.75	810760.83	1750	1975	SB52	1-Mar-95	1103	10	30.6	
1227187.11	810785.83	1750	2000	Y41	23-Feb-95	1154	10	<7.0	
1227187.47	810810.83	1750	2025	SB53	1-Mar-95	1044	10	<7.0	
1227187.83	810835.82	1750	2050	Y42	23-Feb-95	1226	10	<7.0	
1227188.56	810885.82	1750	2100	Y43	23-Feb-95	1313	10	<7.0	
1227189.28	810935.81	1750	2150	Y44	23-Feb-95	1344	10	<7.0	
1227190.00	810985.81	1750	2200	Y45	23-Feb-95	1428	10	<7.0	
1227190.72	811035.80	1750	2250	Y46	23-Feb-95	1442	10	<7.0	
1227214.39	809210.27	1800	425	SG5	1-Mar-95	1001	10	<7.0	
1227220.52	809635.23	1800	850	SB12	1-Mar-95	1140	10	<7.0	
1227246.24	809684.86	1825	900	SB13	1-Mar-95	1157	10	<7.0	
1227223.04	809810.21	1800	1025	SB14	1-Mar-95	1214	10	<7.0	
1227227.73	810135.18	1800	1350	Z28	26-Feb-95	1144	10	<7.0	
1227228.45	810185.17	1800	1400	Z29	26-Feb-95	1318	10	<7.0	
1227229.17	810235.17	1800	1450	Z30	26-Feb-95	1347	10	<7.0	
1227178.82	810210.89	1750	1425	SB75	3-Mar-95	850	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1227229.89	810285.16	1800	1500	Z31	24-Feb-95	849	10	13.3	
1227230.62	810335.15	1800	1550	Z32	24-Feb-95	903	10	<7.0	
1227231.34	810385.15	1800	1600	Z33	24-Feb-95	917	10	<7.0	
1227232.06	810435.14	1800	1650	Z34	24-Feb-95	927	10	<7.0	
1227232.78	810485.14	1800	1700	Z35	24-Feb-95	945	10	<7.0	
1227233.50	810535.13	1800	1750	Z36	24-Feb-95	1009	10	<7.0	yes
1227234.22	810585.13	1800	1800	Z37	24-Feb-95	1022	10	<7.0	
1227234.94	810635.12	1800	1850	Z38	24-Feb-95	1036	10	<7.0	
1227235.67	810685.12	1800	1900	Z39	24-Feb-95	1047	10	<7.0	
1227236.39	810735.11	1800	1950	Z40	23-Feb-95	1435	10	<7.0	
1227237.11	810785.11	1800	2000	Z41	23-Feb-95	1412	10	<7.0	
1227237.83	810835.10	1800	2050	Z42	23-Feb-95	1350	10	<7.0	
1227238.55	810885.10	1800	2100	Z43	23-Feb-95	1336	10	<7.0	
1227239.27	810935.09	1800	2150	Z44	23-Feb-95	1318	9	<7.0	
1227239.99	810985.09	1800	2200	Z45	23-Feb-95	1224	10	<7.0	
1227240.71	811035.08	1800	2250	Z46	23-Feb-95	1212	10	<7.0	
1227264.02	809184.55	1850	400	SG4	1-Mar-95	1033	4	<7.0	
1227277.73	810134.45	1850	1350	AA28	26-Feb-95	1131	10	<7.0	
1227278.45	810184.45	1850	1400	AA29	26-Feb-95	1305	10	<7.0	
1227279.17	810234.44	1850	1450	AA30	26-Feb-95	1331	10	<7.0	
1227279.89	810284.44	1850	1500	AA31	24-Feb-95	943	10	<7.0	
1227280.61	810334.43	1850	1550	AA32	24-Feb-95	930	10	<7.0	
1227281.33	810384.43	1850	1600	AA33	24-Feb-95	913	10	16.1	yes
1227282.05	810434.42	1850	1650	AA34	24-Feb-95	857	10	<7.0	
1227282.77	810484.42	1850	1700	AA35	24-Feb-95	839	10	<7.0	
1227283.50	810534.41	1850	1750	AA36	24-Feb-95	820	10	<7.0	
1227284.22	810584.41	1850	1800	AA37	24-Feb-95	805	10	<7.0	
1227284.94	810634.40	1850	1850	AA38	24-Feb-95	750	10	<7.0	
1227285.66	810684.40	1850	1900	AA39	24-Feb-95	733	10	<7.0	
1227286.38	810734.39	1850	1950	AA40	23-Feb-95	1507	10	<7.0	
1227287.10	810784.39	1850	2000	AA41	23-Feb-95	1449	10	15.6	
1227287.46	810809.38	1850	2025	SB54	1-Mar-95	1033	10	58.1	yes
1227287.82	810834.38	1850	2050	AA42	23-Feb-95	1429	10	<7.0	yes
1227288.55	810884.38	1850	2100	AA43	23-Feb-95	1412	10	<7.0	
1227289.27	810934.37	1850	2150	AA44	23-Feb-95	1355	10	<7.0	
1227289.99	810984.37	1850	2200	AA45	23-Feb-95	1337	10	<7.0	
1227290.71	811034.36	1850	2250	AA46	23-Feb-95	1320	10	<7.0	
1227314.01	809183.83	1900	400	SG3	1-Mar-95	1046	5	<7.0	yes
1227328.44	810183.73	1900	1400	BB29	26-Feb-95	1253	10	<7.0	
1227329.16	810233.72	1900	1450	BB30	26-Feb-95	1315	10	<7.0	
1227329.88	810283.72	1900	1500	BB31	26-Feb-95	1214	10	<7.0	
1227330.61	810333.71	1900	1550	BB32	24-Feb-95	834	10	<7.0	
1227331.33	810383.71	1900	1600	BB33	24-Feb-95	818	10	<7.0	
1227332.05	810433.70	1900	1650	BB34	24-Feb-95	806	10	<7.0	
1227332.77	810483.70	1900	1700	BB35	24-Feb-95	752	10	<7.0	yes
1227333.49	810533.69	1900	1750	BB36	24-Feb-95	737	10	<7.0	
1227334.21	810583.69	1900	1800	BB37	23-Feb-95	1713	10	7.6	
1227334.93	810633.68	1900	1850	BB38	23-Feb-95	1709	10	<7.0	
1227335.65	810683.68	1900	1900	BB39	23-Feb-95	1700	10	<7.0	yes
1227336.38	810733.67	1900	1950	BB40	23-Feb-95	1712	10	<7.0	
1227337.10	810783.67	1900	2000	BB41	23-Feb-95	1658	10	9.0	
1227337.46	810808.66	1900	2025	SB55	1-Mar-95	1022	10	22.0	yes
1227337.82	810833.66	1900	2050	BB42	23-Feb-95	1642	10	<7.0	
1227338.54	810883.65	1900	2100	BB43	23-Feb-95	1623	10	<7.0	yes
1227339.26	810933.65	1900	2150	BB44	23-Feb-95	1606	10	<7.0	

TABLE 4-1
SOIL GAS SURVEY
FIELD PID RESULTS

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

State Plane Coordinates		Field Grid Coordinates		Soil Gas Grid Point Location	Date Sampled	Time Sampled	Sample Depth (ft)	PID Field Result (ppm/v)	Field GC Laboratory Analysis
NORTH (ft)	EAST (ft)	NORTH (ft)	EAST (ft)						
1227339.98	810983.64	1900	2200	BB45	23-Feb-95	1543	10	<7.0	
1227340.70	811033.64	1900	2250	BB46	23-Feb-95	1527	10	<7.0	
1227363.65	809158.11	1950	375	SG2	1-Mar-95	851	10	<7.0	
1227364.01	809183.11	1950	400	SG2B	1-Mar-95	931	10	<7.0	
1227378.44	810183.01	1950	1400	CC29	26-Feb-95	1201	10	<7.0	
1227379.16	810233.00	1950	1450	CC30	26-Feb-95	1155	10	<7.0	
1227379.88	810283.00	1950	1500	CC31	4-Mar-95	1128	10	<7.0	
1227380.60	810332.99	1950	1550	CC32	4-Mar-95	1139	9	15.7	
1227381.32	810382.99	1950	1600	CC33	24-Feb-95	835	10	<7.0	
1227382.04	810432.98	1950	1650	CC34	24-Feb-95	819	10	<7.0	
1227382.76	810482.98	1950	1700	CC35	24-Feb-95	804	10	<7.0	
1227383.49	810532.97	1950	1750	CC36	24-Feb-95	745	10	<7.0	
1227384.21	810582.96	1950	1800	CC37	23-Feb-95	1657	10	<7.0	
1227384.93	810632.96	1950	1850	CC38	23-Feb-95	1643	4	<7.0	
1227385.65	810682.95	1950	1900	CC39	23-Feb-95	1626	10	<7.0	
1227386.37	810732.95	1950	1950	CC40	23-Feb-95	1610	10	<7.0	
1227387.09	810782.94	1950	2000	CC41	23-Feb-95	1601	10	<7.0	
1227387.81	810832.94	1950	2050	CC42	23-Feb-95	1549	10	<7.0	
1227388.54	810882.93	1950	2100	CC43	23-Feb-95	1535	10	<7.0	
1227389.26	810932.93	1950	2150	CC44	23-Feb-95	1517	10	<7.0	
1227389.98	810982.92	1950	2200	CC45	23-Feb-95	1509	10	<7.0	
1227390.70	811032.92	1950	2250	CC46	23-Feb-95	1458	10	<7.0	
1227412.92	809107.40	2000	325	SG1	1-Mar-95	831	6	<7.0	
1227414.00	809182.39	2000	400	SG2A	1-Mar-95	908	10	<7.0	
1227428.43	810182.29	2000	1400	DD29	26-Feb-95	1150	10	<7.0	
1227429.15	810232.28	2000	1450	DD30	4-Mar-95	1112	10	<7.0	
1227429.87	810282.27	2000	1500	DD31	4-Mar-95	1101	10	<7.0	
1227430.60	810332.27	2000	1550	DD32	4-Mar-95	1050	10	15.7	
1227431.32	810382.26	2000	1600	DD33	4-Mar-95	1038	10	8.4	
1227432.04	810432.26	2000	1650	DD34	4-Mar-95	1028	10	<7.0	
1227432.76	810482.25	2000	1700	DD35	4-Mar-95	1014	10	9.9	
1227433.48	810532.25	2000	1750	DD36	4-Mar-95	1000	10	16.4	
1227434.20	810582.24	2000	1800	DD37	4-Mar-95	945	10	<7.0	yes
1227434.92	810632.24	2000	1850	DD38	4-Mar-95	934	10	18.0	
1227435.64	810682.23	2000	1900	DD39	23-Feb-95	1647	10	<7.0	
1227436.37	810732.23	2000	1950	DD40	23-Feb-95	1623	10	<7.0	
1227437.09	810782.22	2000	2000	DD41	23-Feb-95	1614	10	<7.0	
1227437.81	810832.22	2000	2050	DD42	23-Feb-95	1559	10	<7.0	
1227438.53	810882.21	2000	2100	DD43	23-Feb-95	1539	10	<7.0	
1227439.25	810932.21	2000	2150	DD44	23-Feb-95	1524	10	<7.0	
1227439.97	810982.20	2000	2200	DD45	23-Feb-95	1510	10	<7.0	
1227440.69	811032.20	2000	2250	DD46	23-Feb-95	1455	10	<7.0	

Notes:

1. PID - Photoionization detector
2. ppm/v - Parts per million by volume, as referenced to 100 ppm/v isobutylene calibration gas standard.
3. RF - No sample could be collected at location.
4. NA - Not applicable

TABLE 4-2
SOIL G[illegible]RVEY
GC SAMPLE RESULTS SUMMARY

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Soil Gas Grid Point Location	Grid Coordinates		Detected Analyte (ppm/v)							
	North (ft)	East (ft)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1-Dichloroethylene	Benzene	Chlorobenzene	Chloroethane	Chloromethane	Dichloro difluoromethane
B36	600	1750	ND	ND	ND	ND	ND	ND	ND	ND
BB39	1900	1900	ND	ND	ND	ND	ND	ND	ND	ND
BB43	1900	2100	ND	ND	ND	3.0	ND	ND	ND	ND
C32	650	1550	ND	ND	ND	ND	ND	ND	ND	45.0
D32	700	1550	ND	ND	ND	5.8	ND	ND	ND	ND
DD37	2000	1800	ND	ND	ND	5.1	ND	ND	ND	ND
F35	800	1700	ND	ND	ND	ND	ND	ND	ND	7.9
G39	850	1900	ND	ND	ND	ND	ND	ND	ND	ND
H25	900	1200	ND	ND	ND	ND	ND	ND	4.2	1.6
H28	900	1350	ND	ND	ND	ND	ND	ND	ND	ND
H31	900	1500	ND	ND	ND	ND	ND	ND	4.7	84.5
I28	950	1350	ND	ND	ND	ND	ND	ND	ND	ND
I31	950	1500	1.7	ND	ND	ND	ND	ND	ND	ND
I34	950	1650	ND	ND	ND	ND	ND	ND	ND	94.2
J40	1000	1950	ND	4.0	ND	ND	ND	ND	ND	19.9
M43	1150	2100	ND	3.0	ND	ND	ND	ND	ND	ND
N44	1200	2150	ND	ND	ND	ND	ND	ND	4.1	3.4
O39	1250	1900	ND	ND	ND	ND	ND	ND	ND	ND
Q39	1350	1900	ND	ND	ND	2.4	ND	ND	ND	3.4
Q45	1350	2200	ND	ND	ND	3.8	ND	ND	8.2	ND
R33	1400	1600	ND	ND	ND	ND	ND	ND	ND	21.2
R46	1050	2250	ND	ND	ND	ND	ND	ND	ND	ND
SB16	575	1350	ND	ND	ND	ND	ND	ND	ND	3.7
SB30	830	1150	ND	ND	ND	ND	ND	ND	ND	ND
SB36	915	1100	ND	ND	ND	ND	ND	ND	ND	ND
SB54	1850	2025	ND	ND	ND	ND	ND	ND	8.2	ND
SB55	1900	2025	ND	ND	ND	1.8	ND	3.2	ND	ND
SB57	1450	1775	ND	ND	ND	ND	ND	ND	4.4	18.8
SB65	1500	1625	ND	ND	1.4	ND	ND	ND	ND	ND
SB73	1650	1420	ND	ND	ND	ND	ND	ND	4.3	2.4
SB86	1450	1125	ND	ND	ND	ND	ND	ND	ND	ND
T46	1500	2250	ND	ND	ND	ND	2.7	ND	ND	ND
U37	1550	1800	ND	ND	ND	ND	ND	ND	4.1	ND
U43	1550	2100	ND	ND	ND	ND	ND	ND	ND	ND
V43	1600	2100	ND	ND	ND	ND	ND	ND	ND	ND
V45	1600	2200	ND	ND	ND	ND	ND	ND	ND	1.8
Z36	1800	1750	ND	ND	ND	ND	ND	ND	4.4	2.3

ND - not detected at 1.2 ppm/v

E 4-2
SOIL GAS SURVEY
GC SAMPLE RESULTS SUMMARY

Landfill No. 5 (SWMU No. 113/IRP No. LF-5)
Cannon AFB, New Mexico

Soil Gas Grid Point Location	Grid Coordinates		Detected Analyte (ppm/v)								
	North (ft)	East (ft)	Dichloro methane	Ethylbenzene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	Trichloroethylene	Trichloro fluormethane	Xylenes	Sum of Concentrations
B36	600	1750	ND	ND	ND	ND	ND	ND	ND	1.9	1.9
BB39	1900	1900	ND	ND	ND	ND	ND	ND	2.1	ND	2.1
BB43	1900	2100	ND	ND	ND	ND	ND	ND	ND	ND	3.0
C32	650	1550	ND	ND	ND	ND	ND	ND	ND	ND	45.0
D32	700	1550	ND	1.4	ND	ND	ND	ND	ND	ND	7.2
DD37	2000	1800	ND	ND	ND	ND	ND	ND	1.7	ND	6.8
F35	800	1700	ND	ND	ND	ND	ND	ND	ND	ND	7.9
G39	850	1900	ND	ND	ND	2.8	ND	ND	ND	ND	2.8
H25	900	1200	ND	ND	ND	ND	ND	ND	ND	ND	5.8
H28	900	1350	ND	ND	ND	ND	ND	ND	ND	2.2	2.2
H31	900	1500	5.6	ND	ND	4.2	ND	ND	ND	ND	99.0
I28	950	1350	ND	ND	11.8	3.1	ND	11.8	ND	2.2	28.9
I31	950	1500	ND	2.1	ND	ND	ND	ND	ND	ND	3.8
I34	950	1650	ND	ND	ND	2.8	ND	ND	ND	ND	97.0
J40	1000	1950	5.5	ND	ND	3.4	ND	ND	ND	ND	32.8
M43	1150	2100	3.2	ND	ND	3.7	ND	ND	ND	ND	9.9
N44	1200	2150	ND	ND	ND	2.9	ND	ND	ND	ND	10.4
O39	1250	1900	ND	ND	ND	3.1	ND	ND	ND	ND	3.1
Q39	1350	1900	ND	ND	ND	ND	ND	ND	ND	ND	5.8
Q45	1350	2200	ND	ND	ND	3.1	ND	ND	ND	ND	15.1
R33	1400	1600	2.9	ND	ND	ND	ND	ND	ND	ND	24.1
R46	1050	2250	ND	1.4	ND	ND	ND	ND	ND	ND	1.4
SB16	575	1350	ND	ND	ND	ND	ND	ND	ND	ND	3.7
SB30	830	1150	ND	ND	ND	1.7	ND	ND	ND	ND	1.7
SB36	915	1100	ND	ND	ND	ND	ND	ND	ND	1.4	1.4
SB54	1850	2025	4.1	ND	ND	6.6	ND	ND	ND	ND	18.9
SB55	1900	2025	ND	ND	ND	ND	ND	ND	3.9	ND	10.9
SB57	1450	1775	ND	ND	ND	2.5	ND	ND	ND	ND	25.7
SB65	1500	1625	8.6	ND	ND	4.4	2.6	38.7	ND	ND	55.7
SB73	1650	1420	ND	ND	ND	ND	ND	ND	ND	ND	6.7
SB86	1450	1125	ND	ND	ND	2.5	ND	ND	ND	ND	2.5
T46	1500	2250	ND	ND	ND	ND	ND	ND	ND	ND	2.7
U37	1550	1800	ND	ND	ND	ND	ND	ND	ND	ND	4.1
U43	1550	2100	ND	ND	ND	ND	ND	ND	1.7	ND	1.7
V43	1600	2100	4.0	ND	ND	ND	ND	ND	ND	ND	4.0
V45	1600	2200	ND	ND	ND	3.6	ND	ND	ND	ND	5.4
Z36	1800	1750	ND	ND	ND	2.5	ND	ND	ND	ND	9.2

N[illegible]t detected at 1.2 ppm/v

ATTACHMENT A
GC ANALYSIS SAMPLE RESULTS

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 02/28/95
Analyst: RDE
Receipt Date: N/A

Sample	Method Blank	V43 N1600 E2100	V41 N1600 E2000	
Analysis Date	02/28/95	02/28/95	02/28/95	
Analyte	Concentration	Concentration	Concentration	
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	
1-Chloro-2-fluorobenzene	present	not present	present	

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/01/95
Analyst: RDE
Receipt Date: N/A

Sample	AA42 N1850 E2050	B.G. Air N1500 E100	V43 N1600 E2100	T46 N1500 E2250
Analysis Date	03/01/95	03/01/95	03/01/95	03/01/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	4.0 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	not present	present	present	not present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/01/95
Analyst: RDE
Receipt Date: N/A

Sample	N44 N1200 E2150	M43 N1150 E2100	F35 N800 E1700	V38 N1600 E1850
Analysis Date	03/01/95	03/01/95	03/01/95	03/01/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	7.9 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	3.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	3.7 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	3.0 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	not present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/01/95
Analyst: RDE
Receipt Date: N/A

Sample	P37 N1300 E1800	P37 N1300 E1800 D		
Analysis Date	03/01/95	03/01/95		
Analyte	Concentration	Concentration		
Benzene	< 1.2 ppm	< 1.2 ppm		
Benzyl chloride	< 1.2 ppm	< 1.2 ppm		
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm		
Bromobenzene	< 1.2 ppm	< 1.2 ppm		
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm		
Bromoform	< 1.2 ppm	< 1.2 ppm		
Bromomethane	< 1.2 ppm	< 1.2 ppm		
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm		
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm		
Chlorobenzene	< 1.2 ppm	< 1.2 ppm		
Chloroethane	< 1.2 ppm	< 1.2 ppm		
Chloroform	< 1.2 ppm	< 1.2 ppm		
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm		
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm		
Chloromethane	< 1.2 ppm	< 1.2 ppm		
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm		
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm		
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm		
Dibromomethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm		
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm		
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm		
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm		
Dichloromethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm		
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm		
Ethylbenzene	< 1.2 ppm	< 1.2 ppm		
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm		
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm		
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm		
Toluene	< 1.2 ppm	< 1.2 ppm		
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm		
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm		
Trichloroethylene	< 1.2 ppm	< 1.2 ppm		
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm		
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm		
Vinyl chloride	< 1.2 ppm	< 1.2 ppm		
Xylenes	< 1.2 ppm	< 1.2 ppm		
1-Chloro-2-fluorobenzene	present	present		

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/02/95
Analyst: RDE
Receipt Date: N/A

Sample	Method Blank	J40 N1000 E1950	SB02 N600 E2050	G39 N850 E1900
Analysis Date	03/02/95	03/02/95	03/02/95	03/02/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	not present	present	not present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/02/95
Analyst: RDE
Receipt Date: N/A

Sample	Q39 N1350 E1900	R05 N1400 E200 (3')	R05 N1400 E200	U10 N1550 E450
Analysis Date	03/02/95	03/02/95	03/02/95	03/02/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	2.4 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	3.4 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/02/95
Analyst: RDE
Receipt Date: N/A

ple	SB19 N800 E1675 #1	SB19 N800 E1675 #2		
alysis Date	03/02/95	03/02/95		
Analyte	Concentration	Concentration		
Benzene	< 1.2 ppm	< 1.2 ppm		
Benzyl chloride	< 1.2 ppm	< 1.2 ppm		
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm		
Bromobenzene	< 1.2 ppm	< 1.2 ppm		
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm		
Bromoform	< 1.2 ppm	< 1.2 ppm		
Bromomethane	< 1.2 ppm	< 1.2 ppm		
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm		
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm		
Chlorobenzene	< 1.2 ppm	< 1.2 ppm		
Chloroethane	< 1.2 ppm	< 1.2 ppm		
Chloroform	< 1.2 ppm	< 1.2 ppm		
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm		
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm		
Chloromethane	< 1.2 ppm	< 1.2 ppm		
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm		
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm		
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm		
Dibromomethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm		
Dichloroethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm		
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm		
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm		
Dichloromethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm		
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm		
Ethylbenzene	< 1.2 ppm	< 1.2 ppm		
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm		
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm		
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm		
Toluene	< 1.2 ppm	< 1.2 ppm		
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm		
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm		
Trichloroethylene	< 1.2 ppm	< 1.2 ppm		
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm		
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm		
Vinyl chloride	< 1.2 ppm	< 1.2 ppm		
Xylenes	< 1.2 ppm	< 1.2 ppm		
1-Chloro-2-fluorobenzene	present	not present		

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/03/95
Analyst: RDE
Receipt Date: N/A

Sample	AA33 N1850 E1600	SB16 N575 E1350	C32 N650 E1550	B36 N600 E1750
Analysis Date	03/03/95	03/03/95	03/03/95	03/03/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	3.7 ppm	45.0 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	1.9 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/03/95
Analyst: RDE
Receipt Date: N/A

Sample	SB60 N950 E1875	Overnight Test Syringe	T32 N1500 E1550	R33 N1400 E1600
Analysis Date	03/03/95	03/03/95	03/03/95	03/03/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	1.6 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	21.2 ppm
1,1-Dichloroethane	< 1.2 ppm	3.0 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	2.4 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	3.3 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	2.5 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	3.5 ppm	< 1.2 ppm	2.9 ppm
1,2-Dichloropropane	< 1.2 ppm	3.5 ppm	< 1.2 ppm	< 1.2 ppm
Dichloropropene	< 1.2 ppm	2.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	2.1 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	1.5 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	not present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/03/95
Analyst: RDE
Receipt Date: N/A

Sample	O34 N1250 E1650	M28 N1150 E1350	Method Blank	SB37 N1050 E1425
Analysis Date	03/03/95	03/03/95	03/03/95	03/03/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/03/95
Analyst: RDE
Receipt Date: N/A

Sample	D29 N700 E1400 (TD)	SB7 N730 E1250	D29 N700 E1400 (SD)	D29 N700 E1400
Analysis Date	03/03/95	03/03/95	03/03/95	03/03/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	1.8 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/03/95
Analyst: RDE
Receipt Date: N/A

Sample	SG3 N1900 E400			
Analysis Date	03/03/95			
Analyte	Concentration			
Benzene	< 1.2 ppm			
Benzyl chloride	< 1.2 ppm			
Bis(2-chloroethoxy)methane	< 1.2 ppm			
Bromobenzene	< 1.2 ppm			
Bromodichloromethane	< 1.2 ppm			
Bromoform	< 1.2 ppm			
Bromomethane	< 1.2 ppm			
Carbon tetrachloride	< 1.2 ppm			
Chloroacetaldehyde	< 1.2 ppm			
Chlorobenzene	< 1.2 ppm			
Chloroethane	< 1.2 ppm			
Chloroform	< 1.2 ppm			
1-Chlorohexane	< 1.2 ppm			
2-Chloroethyl vinyl ether	< 1.2 ppm			
Chloromethane	< 1.2 ppm			
Chloromethylmethyl ether	< 1.2 ppm			
4-Chlorotoluene	< 1.2 ppm			
Dibromochloromethane	< 1.2 ppm			
Dibromomethane	< 1.2 ppm			
1,2-Dichlorobenzene	< 1.2 ppm			
1,3-Dichlorobenzene	< 1.2 ppm			
1,4-Dichlorobenzene	< 1.2 ppm			
Dichlorodifluormethane	< 1.2 ppm			
1,1-Dichloroethane	< 1.2 ppm			
1,2-Dichloroethane	< 1.2 ppm			
1,1-Dichloroethylene	< 1.2 ppm			
trans-1,2-Dichloroethylene	< 1.2 ppm			
Dichloromethane	< 1.2 ppm			
1,2-Dichloropropane	< 1.2 ppm			
trans-1,3-Dichloropropene	< 1.2 ppm			
Ethylbenzene	< 1.2 ppm			
1,1,2,2-Tetrachloroethane	< 1.2 ppm			
1,1,1,2-Tetrachloroethane	< 1.2 ppm			
Tetrachloroethylene	< 1.2 ppm			
Toluene	< 1.2 ppm			
1,1,1-Trichloroethane	< 1.2 ppm			
1,1,2-Trichloroethane	< 1.2 ppm			
Trichloroethylene	< 1.2 ppm			
Trichlorofluormethane	< 1.2 ppm			
1,2,3-Trichloropropane	< 1.2 ppm			
Vinyl chloride	< 1.2 ppm			
Xylenes	< 1.2 ppm			
1-Chloro-2-fluorobenzene	present			

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/04/95
Analyst: RDE
Receipt Date: N/A

Sample	SG7 N1700 E430	Method Blank	First Test Syringe	BB35 N1900 E1700
Analysis Date	03/04/95	03/04/95	03/04/95	03/04/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	2.1 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	1.6 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	2.6 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	2.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	2.6 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	1.3 ppm	< 1.2 ppm
Dichloropropene	< 1.2 ppm	< 1.2 ppm	1.3 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	1.4 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/04/95
Analyst: RDE
Receipt Date: N/A

Sample	SB10 N1500 E925	SG11 N1200 E850	SB86 N1450 E1125	I31 N950 E1500
Analysis Date	03/04/95	03/04/95	03/04/95	03/04/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	2.1 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	1.7 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	2.5 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/04/95
Analyst: RDE
Receipt Date: N/A

Sample	I31 N950 E1500 (TD)	I31 N950 E1500 (SD)	S27 N1450 E1300	SB81 N1250 E1175
Analysis Date	03/04/95	03/04/95	03/04/95	03/04/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	1.8 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/04/95
Analyst: RDE
Receipt Date: N/A

Sample	Method Blank			
Analysis Date	03/04/95			
Analyte	Concentration			
Benzene	< 1.2 ppm			
Benzyl chloride	< 1.2 ppm			
Bis(2-chloroethoxy)methane	< 1.2 ppm			
Bromobenzene	< 1.2 ppm			
Bromodichloromethane	< 1.2 ppm			
Bromoform	< 1.2 ppm			
Bromomethane	< 1.2 ppm			
Carbon tetrachloride	< 1.2 ppm			
Chloroacetaldehyde	< 1.2 ppm			
Chlorobenzene	< 1.2 ppm			
Chloroethane	< 1.2 ppm			
Chloroform	< 1.2 ppm			
1-Chlorohexane	< 1.2 ppm			
2-Chloroethyl vinyl ether	< 1.2 ppm			
Chloromethane	< 1.2 ppm			
Chloromethylmethyl ether	< 1.2 ppm			
4-Chlorotoluene	< 1.2 ppm			
Dibromochloromethane	< 1.2 ppm			
Dibromomethane	< 1.2 ppm			
1,2-Dichlorobenzene	< 1.2 ppm			
1,3-Dichlorobenzene	< 1.2 ppm			
1,4-Dichlorobenzene	< 1.2 ppm			
Dichlorodifluormethane	< 1.2 ppm			
1,1-Dichloroethane	< 1.2 ppm			
1,2-Dichloroethane	< 1.2 ppm			
1,1-Dichloroethylene	< 1.2 ppm			
trans-1,2-Dichloroethylene	< 1.2 ppm			
Dichloromethane	< 1.2 ppm			
1,2-Dichloropropane	< 1.2 ppm			
trans-1,3-Dichloropropene	< 1.2 ppm			
Ethylbenzene	< 1.2 ppm			
1,1,2,2-Tetrachloroethane	< 1.2 ppm			
1,1,1,2-Tetrachloroethane	< 1.2 ppm			
Tetrachloroethylene	< 1.2 ppm			
Toluene	< 1.2 ppm			
1,1,1-Trichloroethane	< 1.2 ppm			
1,1,2-Trichloroethane	< 1.2 ppm			
Trichloroethylene	< 1.2 ppm			
Trichlorofluormethane	< 1.2 ppm			
1,2,3-Trichloropropane	< 1.2 ppm			
Vinyl chloride	< 1.2 ppm			
Xylenes	< 1.2 ppm			
1-Chloro-2-fluorobenzene	present			

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/05/95
Analyst: RDE
Receipt Date: N/A

Sample	SB77 N1500 E1375	X26 N1700 E1250	Second Test Syringe	SB30 N830 E1150
Analysis Date	03/05/95	03/05/95	03/05/95	03/05/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	2.8 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	2.4 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	1.9 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	2.7 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	2.3 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	2.8 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	1.8 ppm	< 1.2 ppm
Dichloropropene	< 1.2 ppm	< 1.2 ppm	2.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	1.7 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	1.7 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	1.4 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/05/95
Analyst: RDE
Receipt Date: N/A

Sample	G21 N850 E1000	SB36 N915 E1100	I13 N950 E600	I13 N950 E600 (TD)
Analysis Date	03/05/95	03/05/95	03/05/95	03/05/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	1.4 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/05/95
Analyst: RDE
Receipt Date: N/A

Sample	I13 N950 E600 (SD)			
Analysis Date	03/05/95			
Analyte	Concentration			
Benzene	< 1.2 ppm			
Benzyl chloride	< 1.2 ppm			
Bis(2-chloroethoxy)methane	< 1.2 ppm			
Bromobenzene	< 1.2 ppm			
Bromodichloromethane	< 1.2 ppm			
Bromoform	< 1.2 ppm			
Bromomethane	< 1.2 ppm			
Carbon tetrachloride	< 1.2 ppm			
Chloroacetaldehyde	< 1.2 ppm			
Chlorobenzene	< 1.2 ppm			
Chloroethane	< 1.2 ppm			
Chloroform	< 1.2 ppm			
1-Chlorohexane	< 1.2 ppm			
2-Chloroethyl vinyl ether	< 1.2 ppm			
Chloromethane	< 1.2 ppm			
Chloromethylmethyl ether	< 1.2 ppm			
4-Chlorotoluene	< 1.2 ppm			
Dibromochloromethane	< 1.2 ppm			
Dibromomethane	< 1.2 ppm			
1,2-Dichlorobenzene	< 1.2 ppm			
1,3-Dichlorobenzene	< 1.2 ppm			
1,4-Dichlorobenzene	< 1.2 ppm			
Dichlorodifluormethane	< 1.2 ppm			
[illegible] Dichloroethane	< 1.2 ppm			
[illegible] Dichloroethane	< 1.2 ppm			
1,1-Dichloroethylene	< 1.2 ppm			
trans-1,2-Dichloroethylene	< 1.2 ppm			
Dichloromethane	< 1.2 ppm			
1,2-Dichloropropane	< 1.2 ppm			
trans-1,3-Dichloropropene	< 1.2 ppm			
Ethylbenzene	< 1.2 ppm			
1,1,2,2-Tetrachloroethane	< 1.2 ppm			
1,1,1,2-Tetrachloroethane	< 1.2 ppm			
Tetrachloroethylene	< 1.2 ppm			
Toluene	< 1.2 ppm			
1,1,1-Trichloroethane	< 1.2 ppm			
1,1,2-Trichloroethane	< 1.2 ppm			
Trichloroethylene	< 1.2 ppm			
Trichlorofluormethane	< 1.2 ppm			
1,2,3-Trichloropropane	< 1.2 ppm			
Vinyl chloride	< 1.2 ppm			
Xylenes	< 1.2 ppm			
1-Chloro-2-fluorobenzene	present			

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/06/95
Analyst: RDE
Receipt Date: N/A

Sample	Method Blank	F44 N800 E2150	G39 N850 E1900	J40 N1000 E1950
Analysis Date	03/06/95	03/06/95	03/06/95	03/06/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	19.9 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	5.5 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	2.8 ppm	3.4 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	4.0 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/06/95
Analyst: RDE
Receipt Date: N/A

nple	P27 N1300 E1300	M25 N1150 E1200	SB28 N840 E1250	SB28 N840 E1250 SD
alysis Date	03/06/95	03/06/95	03/06/95	03/06/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/06/95
Analyst: RDE
Receipt Date: N/A

Sample	SB28 N840 E1250 TD	Probe Blank		
Analysis Date	03/06/95	03/06/95		
Analyte	Concentration	Concentration		
Benzene	< 1.2 ppm	< 1.2 ppm		
Benzyl chloride	< 1.2 ppm	< 1.2 ppm		
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm		
Bromobenzene	< 1.2 ppm	< 1.2 ppm		
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm		
Bromoform	< 1.2 ppm	< 1.2 ppm		
Bromomethane	< 1.2 ppm	< 1.2 ppm		
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm		
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm		
Chlorobenzene	< 1.2 ppm	< 1.2 ppm		
Chloroethane	< 1.2 ppm	< 1.2 ppm		
Chloroform	< 1.2 ppm	< 1.2 ppm		
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm		
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm		
Chloromethane	< 1.2 ppm	< 1.2 ppm		
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm		
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm		
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm		
Dibromomethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm		
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm		
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm		
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm		
trans-1,2-Dichloroethylene	< 1.2 ppm	12.6 ppm		
Dichloromethane	< 1.2 ppm	< 1.2 ppm		
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm		
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm		
Ethylbenzene	< 1.2 ppm	< 1.2 ppm		
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm		
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm		
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm		
Toluene	< 1.2 ppm	< 1.2 ppm		
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm		
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm		
Trichloroethylene	< 1.2 ppm	< 1.2 ppm		
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm		
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm		
Vinyl chloride	< 1.2 ppm	< 1.2 ppm		
Xylenes	< 1.2 ppm	< 1.2 ppm		
1-Chloro-2-fluorobenzene	present	present		

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/07/95
Analyst: RDE
Receipt Date: N/A

Sample	Method Blank	SB34 N835 E950	SB33 N835 E1000	J20 N1000 E950
Analysis Date	03/07/95	03/07/95	03/07/95	03/07/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/07/95
Analyst: RDE
Receipt Date: N/A

Sample	K25 N1050 E1200	Mob Lab Air Blank	SB65 N1500 E1625	H28 N900 E1350
Analysis Date	03/07/95	03/07/95	03/07/95	03/07/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	1.4 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	2.6 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	8.6 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	4.4 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	38.7 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	2.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
esentative: Geoff Webb

DGI Project: 5121
Report Date: 03/07/95
Analyst: RDE
Receipt Date: N/A

Sample	I28 N950 E1350	I28 N950 1350 TD	U12 N1500 E550	Method Blank
Analysis Date	03/07/95	03/07/95	03/07/95	03/07/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	11.8 ppm	4.6 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	3.1 ppm	2.8 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	11.8 ppm	8.7 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	2.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/07/95
Analyst: RDE
Receipt Date: N/A

Sample	O15 N1250 E700	G31 N850 E1500	Method Blank	H25 N900 E1200
Analysis Date	03/07/95	03/07/95	03/07/95	03/07/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	4.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	1.6 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/08/95
Analyst: RDE
Receipt Date: N/A

ple	H31 N900 E1500	SB73 N1650 E1420 TI	SB73 N1650 E1420	I34 N950 E1650
ysis Date	03/08/95	03/08/95	03/08/95	03/08/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	4.7 ppm	4.2 ppm	4.3 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	84.5 ppm	2.5 ppm	2.4 ppm	94.2 ppm
Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	5.6 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	4.2 ppm	< 1.2 ppm	< 1.2 ppm	2.8 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/08/95
Analyst: RDE
Receipt Date: N/A

Sample	SB57 N1450 E1775	Z36 N1800 E1750	N44 N1200 E2150	U37 N1550 E1800
Analysis Date	03/08/95	03/08/95	03/08/95	03/08/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	4.4 ppm	4.4 ppm	4.1 ppm	4.1 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	18.8 ppm	2.3 ppm	3.4 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	2.5 ppm	2.5 ppm	2.9 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/08/95
Analyst: RDE
Receipt Date: N/A

ple	O42 N1250 E2050	Method Blank	Method Blank	O39 N1250 E1900
ysis Date	03/08/95	03/08/95	03/08/95	03/08/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	1.8 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	3.1 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/08/95
Analyst: RDE
Receipt Date: N/A

Sample	SB46 N1450 E2025	R43 N1400 E2100	Q45 N1350 E2200	SB54 N1850 E2025
Analysis Date	03/08/95	03/08/95	03/08/95	03/08/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	3.8 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	8.2 ppm	8.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	4.1 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	3.1 ppm	6.6 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/08/95
Analyst: RDE
Receipt Date: N/A

Sample	SB54 N1850 E2025 T	SB55 N1900 E2025	BB43 N1900 E2100	
Analysis Date	03/08/95	03/08/95	03/08/95	
Analyte	Concentration	Concentration	Concentration	
Benzene		1.8 ppm	3.0 ppm	
Benzyl chloride		< 1.2 ppm	< 1.2 ppm	
Bis(2-chloroethoxy)methane		< 1.2 ppm	< 1.2 ppm	
Bromobenzene		< 1.2 ppm	< 1.2 ppm	
Bromodichloromethane		< 1.2 ppm	< 1.2 ppm	
Bromoform		< 1.2 ppm	< 1.2 ppm	
Bromomethane		< 1.2 ppm	< 1.2 ppm	
Carbon tetrachloride		< 1.2 ppm	< 1.2 ppm	
Chloroacetaldehyde		< 1.2 ppm	< 1.2 ppm	
Chlorobenzene		< 1.2 ppm	< 1.2 ppm	
Chloroethane		5.2 ppm	< 1.2 ppm	
Chloroform		< 1.2 ppm	< 1.2 ppm	
1-Chlorohexane		< 1.2 ppm	< 1.2 ppm	
2-Chloroethyl vinyl ether		< 1.2 ppm	< 1.2 ppm	
Chloromethane		< 1.2 ppm	< 1.2 ppm	
Chloromethylmethyl ether		< 1.2 ppm	< 1.2 ppm	
4-Chlorotoluene		< 1.2 ppm	< 1.2 ppm	
Dibromochloromethane		< 1.2 ppm	< 1.2 ppm	
Dibromomethane		< 1.2 ppm	< 1.2 ppm	
1,2-Dichlorobenzene		< 1.2 ppm	< 1.2 ppm	
1,3-Dichlorobenzene		< 1.2 ppm	< 1.2 ppm	
1,4-Dichlorobenzene		< 1.2 ppm	< 1.2 ppm	
Dichlorodifluormethane		< 1.2 ppm	< 1.2 ppm	
1,1-Dichloroethane		< 1.2 ppm	< 1.2 ppm	
1,2-Dichloroethane		< 1.2 ppm	< 1.2 ppm	
1,1-Dichloroethylene		< 1.2 ppm	< 1.2 ppm	
trans-1,2-Dichloroethylene		< 1.2 ppm	< 1.2 ppm	
Dichloromethane		< 1.2 ppm	< 1.2 ppm	
1,2-Dichloropropane		< 1.2 ppm	< 1.2 ppm	
trans-1,3-Dichloropropene		< 1.2 ppm	< 1.2 ppm	
Ethylbenzene		< 1.2 ppm	< 1.2 ppm	
1,1,2,2-Tetrachloroethane		< 1.2 ppm	< 1.2 ppm	
1,1,1,2-Tetrachloroethane		< 1.2 ppm	< 1.2 ppm	
Tetrachloroethylene		< 1.2 ppm	< 1.2 ppm	
Toluene		< 1.2 ppm	< 1.2 ppm	
1,1,1-Trichloroethane		< 1.2 ppm	< 1.2 ppm	
1,1,2-Trichloroethane		< 1.2 ppm	< 1.2 ppm	
Trichloroethylene		< 1.2 ppm	< 1.2 ppm	
Trichlorofluormethane		3.9 ppm	< 1.2 ppm	
1,2,3-Trichloropropane		< 1.2 ppm	< 1.2 ppm	
Vinyl chloride		< 1.2 ppm	< 1.2 ppm	
Xylenes		< 1.2 ppm	< 1.2 ppm	
1-Chloro-2-fluorobenzene		present	present	
	NOTE:			
	The results of this sample were not			
	quantified due to a retention time			
	shift in the gas chromatograph			

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/09/95
Analyst: RDE
Receipt Date: N/A

Sample	BB39 N1900 E1900	R46 N1400 E2250	U43 N1550 E2100	DD37 N2000 E1800
Analysis Date	03/09/95	03/09/95	03/09/95	03/09/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	5.1 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	< 1.2 ppm	1.4 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	2.1 ppm	< 1.2 ppm	1.7 ppm	1.7 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/09/95
Analyst: RDE
Receipt Date: N/A

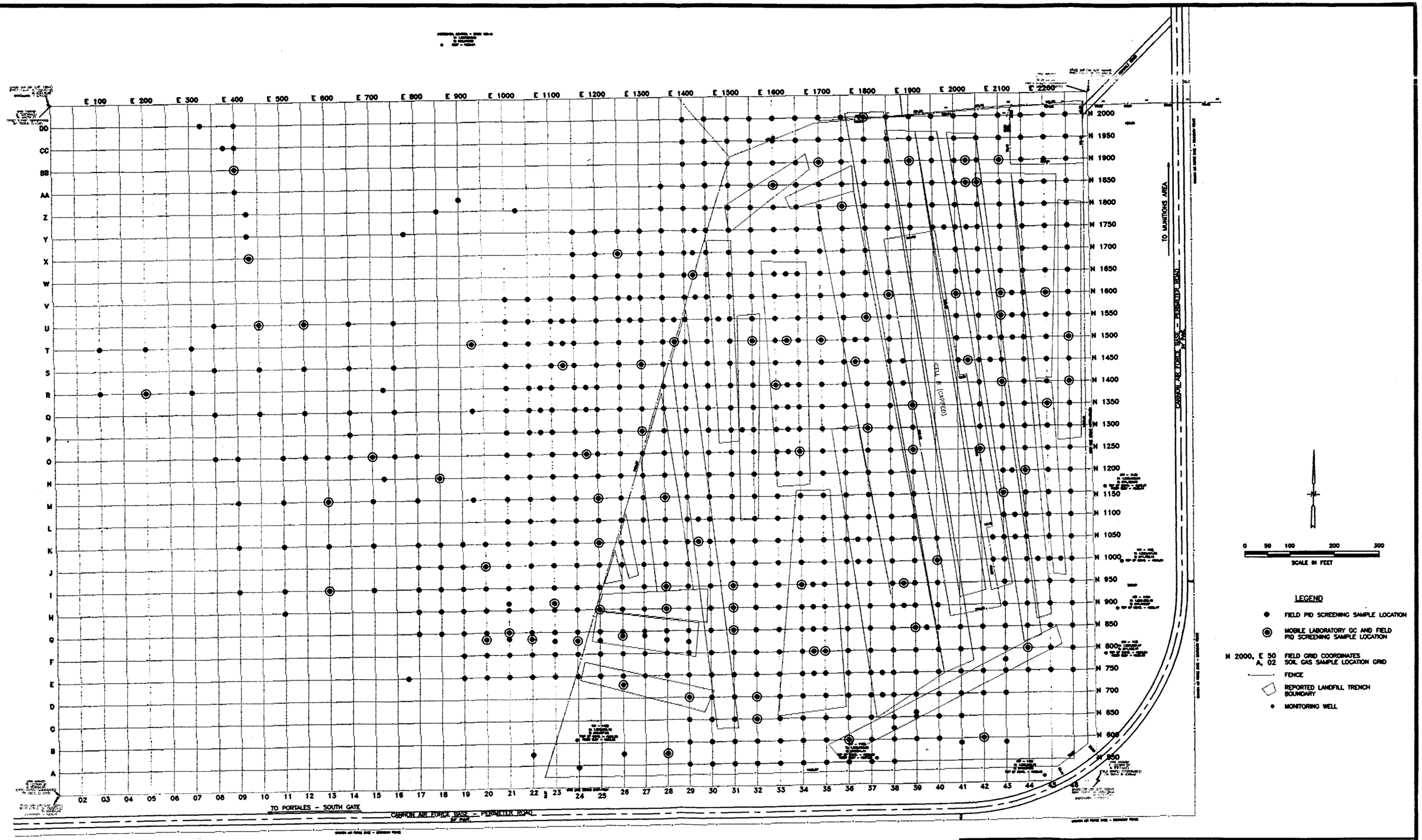
Sample	D32 N700 E1550	V45 N1600 E2000	T46 N1500 E2250	J40 N1000 E1950
Analysis Date	03/09/95	03/09/95	03/09/95	03/09/95
Analyte	Concentration	Concentration	Concentration	Concentration
Benzene	5.8 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Benzyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bis(2-chloroethoxy)methane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromodichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromoform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Bromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Carbon tetrachloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroacetaldehyde	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chlorobenzene	< 1.2 ppm	< 1.2 ppm	2.7 ppm	< 1.2 ppm
Chloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloroform	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chlorohexane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
2-Chloroethyl vinyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Chloromethylmethyl ether	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
4-Chlorotoluene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromochloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dibromomethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,3-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,4-Dichlorobenzene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichlorodifluormethane	< 1.2 ppm	1.8 ppm	< 1.2 ppm	12.1 ppm
1,1-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2-Dichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,2-Dichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Dichloromethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	4.3 ppm
1,2-Dichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
trans-1,3-Dichloropropene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Ethylbenzene	1.4 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,2,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,1,1,2-Tetrachloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Tetrachloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Toluene	< 1.2 ppm	3.6 ppm	< 1.2 ppm	3.4 ppm
1,1,1-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	4.6 ppm
1,1,2-Trichloroethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichloroethylene	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Trichlorofluormethane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1,2,3-Trichloropropane	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Vinyl chloride	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
Xylenes	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm	< 1.2 ppm
1-Chloro-2-fluorobenzene	present	present	present	present

DIRECT GEOCHEMICAL, Inc.
Environmental Division

Client: Woodward Clyde
Project Location: Clovis, New Mexico
Client Project: C3M11M(2B)
Representative: Geoff Webb

DGI Project: 5121
Report Date: 03/09/95
Analyst: RDE
Receipt Date: N/A

Sample	J40 N1000 E1950 TD			
Analysis Date	03/09/95			
Analyte	Concentration			
Benzene	< 1.2 ppm			
Benzyl chloride	< 1.2 ppm			
Bis(2-chloroethoxy)methane	< 1.2 ppm			
Bromobenzene	< 1.2 ppm			
Bromodichloromethane	< 1.2 ppm			
Bromoform	< 1.2 ppm			
Bromomethane	< 1.2 ppm			
Carbon tetrachloride	< 1.2 ppm			
Chloroacetaldehyde	< 1.2 ppm			
Chlorobenzene	< 1.2 ppm			
Chloroethane	< 1.2 ppm			
Chloroform	< 1.2 ppm			
1-Chlorohexane	< 1.2 ppm			
2-Chloroethyl vinyl ether	< 1.2 ppm			
Chloromethane	< 1.2 ppm			
Chloromethylmethyl ether	< 1.2 ppm			
4-Chlorotoluene	< 1.2 ppm			
Dibromochloromethane	< 1.2 ppm			
Dibromomethane	< 1.2 ppm			
1,2-Dichlorobenzene	< 1.2 ppm			
1,3-Dichlorobenzene	< 1.2 ppm			
1,4-Dichlorobenzene	< 1.2 ppm			
Dichlorodifluormethane	10.3 ppm			
1,1-Dichloroethane	< 1.2 ppm			
1,2-Dichloroethane	< 1.2 ppm			
1,1-Dichloroethylene	< 1.2 ppm			
trans-1,2-Dichloroethylene	< 1.2 ppm			
Dichloromethane	4.0 ppm			
1,2-Dichloropropane	< 1.2 ppm			
trans-1,3-Dichloropropene	< 1.2 ppm			
Ethylbenzene	< 1.2 ppm			
1,1,2,2-Tetrachloroethane	< 1.2 ppm			
1,1,1,2-Tetrachloroethane	< 1.2 ppm			
Tetrachloroethylene	< 1.2 ppm			
Toluene	3.4 ppm			
1,1,1-Trichloroethane	4.4 ppm			
1,1,2-Trichloroethane	< 1.2 ppm			
Trichloroethylene	< 1.2 ppm			
Trichlorofluormethane	< 1.2 ppm			
1,2,3-Trichloropropane	< 1.2 ppm			
Vinyl chloride	< 1.2 ppm			
Xylenes	< 1.2 ppm			
1-Chloro-2-fluorobenzene	present			



Job No. : C3M11M	SOIL GAS SURVEY SAMPLE LOCATION MAP LANDFILL NO. 5 (SWMU NO. 113/IRP NO. LF-5)
Prepared by : GLW/JTA	
Date : 4/12/95	

3M11FGB1

FIG. 1

TO VIEW THE MAP AND/OR MAPS WITH THIS DOCUMENT, PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT

APPENDIX D
LITHOLOGIC BORING LOGS AND GEOTECHNICAL ANALYSIS

HTW DRILLING LOG

HOLE NO.	113-01
SHEET 1 OF 8 SHEETS	

1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Enviromental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russel Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 1/4" I.D. HSA; 5" CME core barrel w/polybutyrate liners and 2 1/2" I.D. Calif. split spoon w/s.s. liners
8. HOLE LOCATION	N1400, E2250
9. SURFACE ELEVATION	4264.7
10. DATE STARTED	07/31/95
11. DATE COMPLETED	07/31/95
12. OVERBURDEN THICKNESS	64.8'
15. DEPTH GROUNDWATER ENCOUNTERED	NA
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	NA
14. TOTAL DEPTH OF HOLE	64.8'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
8	8	8	8	8	8	2	1	2	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264	1	FILL (SM) - Silty Sand, dry, tan to brown, fine-grained, calcareous, with caliche nodules to 1"	PID = 0.0ppm		CAN113 B301-1000		Core run 1, 0-4.5' Rec = 4.0'/4.5' Time: 0850
		FILL (SM) - Silty Sand, dry, tan to orangish-brown with white spots, fine grained, calcareous, asphalt pieces (rare) and caliche nodules to 2" (occasional)					PID readings are above background
4263		Soil, Sand, Silty, dry, brown, asphalt (50%), fine grained, gravelly asphalt (solid)					
	2						
4262			PID = 0.0ppm				
	3						
4261							
	4						
4260		FILL (SM) - Silty Sand, dry red-brown to dark brown, fine-grained, calcareous	PID = 0.0ppm				Core run 2, 4.5-9.5' Rec = 2.0'/5.0'
	5						

HTW DRILLING LOG

HOLE NO. 113-01

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4259	6						
4258	7	FILL - Wood, concrete, and asphalt (70%) (predominantly asphalt)	PID = 0.0ppm				
4257	8						
4256	9						
4255	10	FILL (CL) - Sandy Clay, Silty, slightly moist, dark brown, with intermingled asphalt and wood, trash (70% of total)					Core run 3, 9.5-14.5' Rec = 2.5'/5.0'
4254	11		PID = 0.0ppm				
4253	12	FILL - Styrofoam, plastic (black bags), wood (20%), asphalt (70%)					
4252	13						
4251	14						

HTW DRILLING LOG

HOLE NO. 113-01

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250	15	FILL - No soil, wood (10%), and asphalt material (90%), wood is possibly burned	PID = 0.0ppm				Core run 4, 14.5-19.5' Rec = 2.5'/5.0'
4249	16						
4248	17						
4247	18						
4246	19						
4245	20	FILL - Wood, partially burned or soaked in asphalt material	PID = 0.0ppm				Core run 5, 19.5-24.5' Rec = 2.5'/5.0'
4244	21	Concrete					
4243	22						
4242	23						

HTW DRILLING LOG

HOLE NO. 113-01

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4241		(SM) - Clayey Sand with Silt, moist, orangish-brown, fine grained, calcareous, occasional quartz grains, occasional caliche nodules to 1/2", white	PID = 0.0ppm				Base of cell at 23' Native soil
	24						
4240							
	25						
4239							
	26						
4238							
	27						
4237							
	28	(SM) - Clayey Sand with Silt, dense, dry, light orangish brown, calcareous, with occasional caliche nodules up to 1/2" diameter, tan-white, occasional quartz grains	PID = 0.0ppm		CAN113 B301-1028	11	N = 74 Rec = 1.6'/2.0' Time: 1000
4236						34	
	29				CAN113 B301-0501 (MRD)	40	
4235						65	
	30						
4234							
	31						
4233							
	32						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-01	Landfill No. 5 Phase 1 RFI	David K. Nicholson	5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232	33						
4231	34	(SM) - Silty Sand with Clay, medium dense, dry, light orange-brown, fine grained, calcareous, occasional quartz grains, with abundant caliche nodules to 1 1/2", white	PID = 0.0ppm	CAN113 B301-4034	CAN113 B301-1034	8	N = 42 Rec = 1.7'/2.0' Time: 1025
4230	35					15	
4229						27	
	36					37	
4228	37						
4227	38						
4226	39						
4225	40	(SM) - Silty Sand, medium dense, dry, light pinkish-brown to red-brown, fine grained, calcareous, occasional quartz and hornblende (?) grains; with abundant caliche nodules up to	PID = 0.0ppm			8	N = 49 Rec = 1.7'/2.0'
4224	41					22	

HTW DRILLING LOG

HOLE NO. 113-01

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		2" diameter, white				27	
4223						28	
	42						
4222							
	43						
4221							
	44						
4220							
	45	(SM) - Silty Sand with Clay, dense, dry, orangish-brown, fine grained, calcareous, with occasional caliche nodules to 1/2", white, occasional quartz grains	PID = 0.0ppm		CAN113 B301-1045	15	N = 58 Rec = 1.7'/2.0' Time: 1305
4219						27	
	46						
						31	
4218						37	
	47						
4217							
	48						
4216							
	49						
4215							
	50						

/CORPS-B/11-30-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-01

HTW DRILLING LOG

HOLE NO. 113-01

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4214	51	(SM) - Silty Sand with Clay, dense, dry, orangish-brown, fine-grained,calcareous, with abundant quartz grains and abundant caliche nodules, white	PID = 0.0ppm			25 31 30 32	N = 61 Rec = 1.8'/2.0'
4213	52						
4212	53						
4211	54						
4210	55						
4209	56	(SM) - Silty Sand with Clay, very dense, dry, fine-medium grained, calcareous, occasional quartz grains, occasional caliche nodules up to 1" diameter, white	PID = 0.0ppm		CAN113 B301-1055	26 52 65 100	N = 117 Rec = 1.6'/1.9' Time: 1400
4208	57						Split spoon refusal at 56.9'
4207	58						
4206	59						

HTW DRILLING LOG

HOLE NO. 113-01

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4205							
	60	(SM) - Silty Sand, very dense, dry, orangish-brown, fine grained, calcareous, occasional quartz and hornblende (?) grains, partially cemented to caliche, with abundant caliche nodules up to 1", white	PID = 0.0ppm			38	N = 198 + Rec = 1.4'/1.4'
4204						98	
	61					100	
4203							Split spoon refusal at 61.4'
	62						
4202							
	63	See below	PID = 0.0ppm			100 +	
4201					CAN113 B301-1063 (Composited 2 samples)		Refusal at 63.3' N = 100 + Rec = 0.3'/0.3' Time: 1450
	64	(SM) - Silty Sand, very dense, dry, pinkish-brown, fine to medium grained, calcareous, with abundant caliche nodules up to 1 1/2", white TD = 64.8'	PID = 0.0ppm			47	N = 100 + Rec = 0.8'/0.8' Time: 1450
4200						100 +	
	65						Split spoon refusal at 64.8'
4199							Borehole grouted to surface using cement/bentonite grout 9 bags cement (Holman type I 94 lb.) and 1 bag bentonite used
	66						
4198							
	67						
4197							
	68						

HTW DRILLING LOG

HOLE NO.	113-02
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental
SHEET 1 OF 7 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	D. Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 3/34" I.D. HSA 5' CME core barrel w/polybutyrate liners 3" O.D. Calif. split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N1800, E2200
9. SURFACE ELEVATION	4263.5
10. DATE STARTED	07/31/95
11. DATE COMPLETED	07/31/95
12. OVERBURDEN THICKNESS	NA
15. DEPTH GROUNDWATER ENCOUNTERED	NA
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	NA
14. TOTAL DEPTH OF HOLE	51.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			J.B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Start drilling at 1003
4263							Core run 1, 0-4' Rec=1.8'/4.0'
	1						
4262							
	2	FILL (SM) - Silty Sand, medium dense, dry, medium brown, very fine to fine grained, with some medium grained, mixed with clasts of various soils, rootlets throughout, minimal trash - degraded asphalt pavement material	PID=0.0ppm				
4261							
	3						
4260							
	4						Core run 2, 4-9' Rec=3.1'/5.0'
4259							
	5						

HTW DRILLING LOG

HOLE NO.	113-02
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	J.B. DuBois
SHEET	2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4258							
	6	FILL (ML) - Clayey Sandy Silt, medium stiff, moist, medium brown, fine to medium grained sand, minimal trash including, asphalt material, cloth, wood	PID = 0.0ppm				
4257							
	7						
4256							
	8	FILL (ML) - Clayey, Silt, as above, concentration of asphaltic pavement material, some staining of fill material from approximately 8-8.9′	PID = 0.0ppm				
4255							
	9						Base of cell at 9′
4254							Core run 3, 9-14′ Rec = 4.3′/5.0′
	10	(SM) - Silty Sand, medium dense, damp, light reddish tan to reddish orange, very fine to fine grained, with little medium grained becoming predominantly medium grained near base of run (approximately 12-14′), no trash, rare pieces of wood at top believed to be sluff carried from above					
4253							Driller pushing something - believe a piece of wood from above (6-8′)
	11						
4252							
	12						
4251							
	13						
4250							
	14						

HTW DRILLING LOG

HOLE NO. 113-02

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4249		(SM) - Silty Sand, loose, damp, light reddish tan, very fine to fine grained, little medium grained, very calcareous	PID = 0.0ppm		CAN113 B302-1014	5	N = 9 Rec = 1.7'/2.0' Time: 1051
	15					5	
4248						4	
						5	
	16						
4247							
	17						
4246							
	18						
4245							
	19						
4244							
	20	(SM) - Silty Sand, loose to dense, damp, reddish orange, trace of calcareous blebs, very fine to fine grained with some medium grained, at 21' moderately well cemented	PID = 0.0ppm		CAN113 B302-1020	9	N = 64 Rec = 2.0'/2.0'
4243						32	
	21					32	
4242						31	
	22						
4241							
	23						

HTW DRILLING LOG

HOLE NO. 113-02

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4240							
	24						24
4239							
	25	(SM) - Silty Sand, dense to very dense, dry, buff, very fine to fine grained, very calcareous, moderately well cemented	PID = 0.0ppm			42	N = 100+ Rec = 0.9' 25
4238						100+	
	26						Split spoon refusal at 25.9' 26
4237							
	27						27
4236							
	28						28
4235							
	29						29
4234							
	30	(SP) - Sand, trace of Silt, dense to very dense, dry, buff, very fine to fine grained, with little medium grained quartz, poorly cemented, calcareous	PID = 0.0ppm		CAN113 B302-1030	42	N = 181 Rec = 1.5'/2.0' Time: 1246 30
4233						81	
	31					100	31
4232							
							Split spoon refusal at 31.5'
	32						32

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-02

HTW DRILLING LOG

HOLE NO. 113-02

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4231							
	33						
4230							
	34						
4229							
	35	(SM) - Silty Sand, dense, dry, light reddish tan, predominantly fine grained, with some medium grained, subrounded, well cemented, few calcareous streaks at 35.5′	PID = 0.0ppm			23	N = 179 + Rec = 1.1′/2.0′
4228						79	
	36					100 +	
4227							Split spoon refusal at 36.4′
	37						
4226							
	38						
4225							
	39						
4224							
	40	(SM) - Silty Sand, dense, dry, light reddish tan, very fine to fine grained, rare calcareous streaks, poorly cemented	PID = 0.0ppm		CAN113 B302-1040	23	N = 110 Rec = 1.8′/1.8′ Time: 1323
4223						42	
	41						

HTW DRILLING LOG

HOLE NO. 113-02

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4222		At 41.5' sand becomes medium grained, trace of silt, calcareous				68 100+	
	42						Split spoon refusal at 41.8'
4221							
	43						
4220							
	44						
4219							
	45						
4218							
	46						
4217							
	47						
4216							
	48						
4215							
	49	(SP) - Sand, trace of Silt, medium dense, dry to damp, light reddish tan, fine to medium grained, with some coarse grains, subrounded to rounded, moderate sorting, slightly	PID = 0.0ppm		CAN113 B302-1049	20 30	N = 41 Rec = 2.0'/2.0' Time: 1352
4214	50						

HTW DRILLING LOG

HOLE NO. 113-02

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		calcareous				21	
4213						19	
	51	TD=51'					
4212							Stopped drilling at 1350 on 7/31/95 Cement mixture from 1416 to 1440 with 8 bags of portland cement Grouted borehole from TD=51' to surface with 3/4 bags of bentonite
	52						
4211							
	53						
4210							
	54						
4209							
	55						
4208							
	56						
4207							
	57						
4206							
	58						
4205							
	59						

HTW DRILLING LOG

HOLE NO.	113-03
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 8 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	D. Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME Core barrel w/ polybutyrate liners 3" O.D. Calif. Split Spoon w/s.s.liners 1" I.D. split spoon
8. HOLE LOCATION	N1550, E2100
9. SURFACE ELEVATION	4264.8
10. DATE STARTED	07/30/95
11. DATE COMPLETED	07/30/95
12. OVERBURDEN THICKNESS	59.9'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	59.9'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	0	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			J.B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264	1	FILL (SM) - Silty Sand, medium dense, dry, medium reddish brown, very fine to fine grained, trace rootlets in top 7", trace caliche nodules	All PID results reported above background PID = 0.6 ppm				Start Surface Drilling at 0851 on 7/30/95 Core run 1, 0-4' Rec = 3.7'/4.0'
4263	2						
4262	3	FILL (SP) - Sand, with trace Silt, medium dense, dry, light pinkish tan, fine to medium grained, abundant caliche, first trash including plastic bag, paper, not abundant					
4261	4						Core run 2, 4-9' Rec = 4.6'/5.0'
4260	5	FILL - Sand, with trace of Silt, medium dense, dry, reddish pink-brown, medium grained,	PID = 1.5 ppm				

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-03	Landfill No. 5 Phase 1 RFI	J.B. DuBois	2 OF 8 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		trace caliche, no trash to 5.9'					
4259							
	6	FILL (SP) - Silty Sand, medium dense, dry, light pinkish tan, fine to medium grained, abundant caliche, trace reddish brown clasts in lower 8", trash throughout includes; plastic cigarette package wrapper, plywood, paper, plastic wrap, cardboard					
4258							
	7						
4257							
	8						
4256							
	9	FILL (SP) - Sand, as above, trash scattered throughout interval, includes; plastic wrap, cardboard, plastic bag	PID = 0.0 ppm				Core run 3, 9-14' Rec = 4.6'/5.0'
4255							
	10						
4254							
	11						
4253							
	12						
4252		FILL (SP) - Sand, trace Silt, medium dense, dry, dark reddish brown, some caliche, trash at base (13.4'), vaseline bottle, plastic bag, cardboard					
	13						
4251							
	14						

HTW DRILLING LOG

HOLE NO. 113-03

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250	15	FILL (SM) - Silty Sand, medium dense, dry, light pinkish tan, very fine to fine grained, trace medium grained, trash scattered throughout includes plastic bag, cardboard, caliche nodules present, trash to approximately 17.5', no stain or discoloration at base of landfill					Core run 4, 14-19' Rec=4.9'/5.0'
4249	16						
4248	17						
4247	18	(SP) - Sand, with trace of Silt, medium dense, dry, dark reddish brown, very fine to fine grained, some medium grained, some caliche, no trash					Base of cell at 17.5
4246	19		PID=0.0 ppm				Core run 5, 19-23' Rec=4.0'/4.0'
4245	20	Sand, as above, becoming more light pink to buff near 21', increasing caliche nodules, no trash					
4244	21						
4243	22						
4242	23						

HTW DRILLING LOG

HOLE NO. 113-03

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4241	24	(SP) - Sand, trace Silt, very dense, dry, medium reddish brown to pinkish tan, predominantly fine grained, trace medium grained quartz, caliche abundant, slightly mottled in part	PID = 0.0 ppm	CAN113 B303-4023	CAN113 B303-1023 (MS/MSD)	32 80 75 100	N = 155 Rec = 2.0'/2.0' Time: 1002
4240	25						
4239	26						
4238	27						
4237	28	(SP) - Sand, trace Silt, dense, dry, pinkish tan, fine to medium grained, very calcareous interval 28-29', well cemented, becomes less calcareous near bottom (29-30')	PID = 0.0 ppm		CAN113 B303-1028 CAN113 B303-0502 (MRD)	22 30 40 30	N = 70 Rec = 2.0'/2.0' Time:1017
4236	29						
4235	30						
4234	31						
4233	32						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET 5 OF 8 SHEETS
113-03	Landfill No. 5 Phase 1 RFI	J.B. DuBois	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232	33						
4231	34						
4230	35	(SP) - Sand, as above, very dense, (28-29')	PID = 0.0 ppm			30 100+	N = 100+ Rec = 0.5'/0.75'
4229	36						Split spoon refusal at 35.9'
4228	37						
4227	38						
4226	39						
4225	40	(SP) - Sand, trace Silt, very dense, dry, light reddish tan, very fine to fine grained, trace medium grained, subrounded to rounded, slight calcareous	PID = 0.0 ppm		CAN113 B303-1040	22 62	N = 115 Rec = 1.9'/2.0' Time: 1044
4224	41						

HTW DRILLING LOG

HOLE NO. 113-03

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						53	
4223						80	
	42						
4222							
	43						
4221							
	44						
4220							
	45	(SP) - Sand, trace Silt, dense, dry, light pinkish tan, predominantly fine grained with some medium grained, well cemented to very well cemented, very calcareous	PID = 0.0 ppm			21	N = 55 Rec = 0.9'/2.0'
4219						25	
	46						
						32	
4218						50	
	47						
4217							
	48						
4216							
	49						
4215							
	50						

HTW DRILLING LOG

HOLE NO. 113-03

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4214	51	(SP) - Sand, trace Silt, very dense, dry, light pinkish tan, fine grained, trace medium grained, well sorted, poorly cemented, calcareous	PID = 0.0 ppm		CAN113 B303-1050	32 100 100+	N = 200+ Rec = 1.4'/1.4' Time: 1116
4213	52						Split spoon refusal at 51.4'
4212	53						
4211	54						
4210	55						
4209	56						
4208	57						
4207	58	(SP) - Sand, trace Silt, very dense, dry, light pinkish tan, predominantly medium grained, some fine grained, poorly cemented, slight calcareous, rare caliche nodule	PID = 0.0 ppm		CAN113 B303-1058	33 41	N = 93 Rec = 1.9'/1.9' Time: 1201
4206	59						

HTW DRILLING LOG

HOLE NO. 113-03

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						52	
4205						100+	
	60	TD=59.9′					Split spoon refusal at 59.9′
4204							
	61						Stopped drilling @ 59.9′. Grout borehole from total depth 59.9′ to surface with grout mixture of 3/4 bag bentonite, 8 bags portland cement grouted from 1236 to 1303.
4203							
	62						
4202							
	63						
4201							
	64						
4200							
	65						
4199							
	66						
4198							
	67						
4197							
	68						

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-03

HTW DRILLING LOG

HOLE NO.	113-04
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environemental Services
SHEET 1 OF 7 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	D. Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME Core barrel w/ polybutyrate liners and 3" O.D. Calif. Split Spoon w/s.s. liners, 1" I.D. Split Spoon
8. HOLE LOCATION	N1200, E2150
9. SURFACE ELEVATION	4263.9
10. DATE STARTED	07/20/95
11. DATE COMPLETED	07/20/95
12. OVERBURDEN THICKNESS	57
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	57.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	GROUT			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL (ML) - Silt, trace Clay, stiff, moist, medium brown, slight red-brown, caliche nodules in part, roolets to 2'	PID = 0.0 ppm		CAN113 B304-1000		Time: 07:35 All PID results reported as above background
4263	1						Core run 1, 0-4'
4262	2	FILL (ML) - Silt, soft to medium stiff, dry, tarce redddish tan to white, caliche present, contains rare amount plastic bag material					
4261	3	FILL (ML) - Clayey Silt, stiff, moist, dark to medium brown, contains plastic bag and styrofoam debris, no stain or discoloration observed	PID = 2.5 ppm				
4260	4	FILL - Silt and interlayered trash debris entire 5', medium dense, dry to slightly moist, red-brown, insulation type material in shoe, trash includes paper, metal can, cloth rag, plastic, cardboard,	PID = 0.0 ppm				Core run 2, 4-9' Rec = 3.5'/5.0'
4259	5						

HTW DRILLING LOG

HOLE NO. 113-04

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		base of sample at 9' is paper/cardboard					
4258	6						
4257	7						
4256	8						
4255	9	FILL - Interlayered Silt, as above, with landfill debris, including paper, (credit receipts), can metal, brillo pad, pipe, cardboard, silt interval from 10-11'	PID = 15.0 ppm PID = 0.0 ppm				Core run 3, 9-14' Rec = 4.4'/5.0'
4254	10						
4253	11	FILL - Clayey Silt zone, slightly moist, landfill debris includes; insulation type material, paper, plastic bag, glass					
4252	12	FILL (ML) - Silt, trace Clay, medium stiff, dry, red-brown to pinkish brown, trace debris; glass, tin, plastic, noted laminae of black color stain at 13', trace caliche nodules					
4251	13						
4250	14	Silt, as above, likely Clayey, increasing caliche nodules and orange-red clasts					

HTW DRILLING LOG

HOLE NO. 113-04

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL (SM) - Silt, Sand, loose, dry, pinkish to light red-brown, very fine grained, trace glass and plastic bag in top 1' (14 -15')	PID = 0.0 ppm				Core run 4, 14-19' Rec = 4.8'/5.0'
4249	15	(SP) -Sand, trace Silt, loose to medium dense, dry to slightly moist, red-orange, fine to medium grained, quartz grains, subrounded, no trash/landfill debris noted					Base of cell at 15'
4248	16						
4247	17	Caliche, medium stiff, dry, white to light pink to buff, caliche nodules, calcareous cement, no debris from landfill noted, lower 8" caliche zone (dense Layer)					
4246	18						
4245	19	Caliche, as above, soft, slightly moist, reddish orang e, calcareous cement	PID = 0.0 ppm				Drill 1' with Split Spoon/polyliner to confirm 5' below landfill
4244	20	Caliche, hard to very hard, dry, orange to slightly red-brown, mottled with calcareous streaks, trace quartz grains	PID = 0.0 ppm		CAN113 B304 1020	20	N = 80 Rec = 2.0'/2.0' Time: 0945
4243	21					34	
						46	
4242	22					50	
4241	23						

HTW DRILLING LOG

HOLE NO. 113-04

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4240	24						
4239	25		PID = 3.4 ppm		CAN113 B304-1025	14	N = 48 Rec:2.0'/2.0' Time: 1009 Note: trace of green rag material in liners, believe it to be sluff in boring, no discoloration noted
4238	26	(SP) - Sand, trace Silt, medium dense, dry, buff, very fine grained, quartz grains, subrounded	PID = 0.0 ppm			28 20 24	
4237	27	(SP) - Sand, as above, dense to very dense, gray, trace of medium grained quartz, subrounded, caliche and calcareous cement increasing with depth to 29', native soil confirmed	PID = 0.0 ppm			25 50 70 70	Drive split spoon 27-29' to confirm native soil/sluff issue N = 120 Rec:2.0'/2.0'
4236	28						
4235	29						Auger to 35' got stuck at approximately 30-31' added water to hole to loosen, able to free auger and clean out slurry before split spoon sample at 35-37'
4234	30						
4233	31						
4232	32						

HTW DRILLING LOG

HOLE NO. 113-04

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4231	33						
4230	34						
4229	35	(SM) - Sand, trace Silt, very dense, dry, buff, very calcareous, trace medium grain quartz grains	PID = 0.0 ppm		CAN113 B304-1035	31 100+	N = 100+ Rec = NA Time: 1120
4228	36						
4227	37						
4226	38						
4225	39						
4224	40	(SM) - Sand, some Silt trace Clay, very dense, dry, buff to light pink, some interbeds of orange red silt, very calcareous, quartz fine to medium grained, no bedding aparent	PID = 0.0 ppm			26 30	N = 62 Rec = 1.4'/2.0'
4223	41						

HTW DRILLING LOG

HOLE NO. 113-04

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						32	
						60	
4222	42						
4221	43						
4220	44						
4219	45	(SM) - Sand, trace Silt, medium dense, dry, light to medium red-brown, fine grained quartz, subrounded, very calcareous, rrae (one) very hard, well cemented silt nodule	PID = 0.0 ppm	CAN113 B304-4045	CAN113 B304-1045	14	N = 50 Rec = 2.0'/2.0' Time: 1158
						24	
4218	46						
						26	
						30	
4217	47						
4216	48						
4215	49						
4214	50						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-04	Landfill No. 5 Phase 1 RFI	Jeanette B. DuBois	7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4213	51	(SM) - Sand, some Silt, very dense, dry, buff to light pink, fine to medium grained, quartz grains subrounded, very calcareous with rare calcareous cemented nodules	PID = 0.0 ppm			36 50 70 100+	N = 120 Rec = 1.0'/1.8'
4212	52						Split Spoon Refusal at 51.8'
4211	53						
4210	54						
4209	55	(SM) - Sand, some Silt trace Clay, very dense, dry, fine to medium grained, calcareous	PID = 0.0 ppm		CAN113 B304-1055	50 70 85 100	N = 155 Rec = 2.0'/2.0' Time: 1237
4208	56						
4207	57	TD = 57'					Stop drilling at 1234 on 7/20/95 Grouted borehole with cement bentonite grout from surface to 57' Grout mixture 8 bags (100 lb each) portland cement 1 + bag (50 lb each) bentonite
4206	58						
4205	59						

HTW DRILLING LOG

HOLE NO.	113-05
SHEET	1 OF 8 SHEETS
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmetal Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME - 75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME 75, 3-1/4" I.D. HSA, 5' CME Core Barrel w/ polybutyrate liners and 2-1/2" I.D. CA. split spoon w/ s.s. liners
8. HOLE LOCATION	N1150, E2100
9. SURFACE ELEVATION	4264.5
10. DATE STARTED	07/20/95
11. DATE COMPLETED	07/20/95
12. OVERBURDEN THICKNESS	60.8
13. DEPTH DRILLED INTO ROCK	N/A
14. TOTAL DEPTH OF HOLE	60.8'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264		FILL (SM) - Slightly Sandy Silt, pink to red w/ dark spots, slightly calcareous					Core run 1, 0-4.5' Rec = 3.2'/4.5
	1						PID readings are recorded above background
4263							
	2	FILL - Trash, soil, plastic and cardboard. No burning	PID = 0.8 ppm				
4262							
	3						
4261							
	4						
4260							Core run 2, 4.5-9.5' Rec = 4.0'/5.0'
	5						

/CORPS-B/12-01-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-05

HTW DRILLING LOG

HOLE NO. 113-05

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4259	6	FILL (SM) - Slightly Sandy Silt with Clay, dry, reddish-pink to red-brown with yellow and brown spots, slightly calcareous, cardboard, only about 3" trash total, some caliche nodules, no burning	PID = 1.0 ppm				
4258							
4257	7						
4256	8						
4255	9						
	10	FILL (SM) - Slightly Sandy Silt with Clay, slightly moist, pink to white, calcareous Trash is intermittent - plastic and cardboard, no burning	PID = 0.0 ppm				Core run 3, 9.5'/14.5' Rec=1.7'/5.0'
4254							
4253	11						
4252	12						
4251	13						
	14						

HTW DRILLING LOG

HOLE NO. 113-05

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250							Core run 4, 14.5-19.5' No recovery
	15	Piece of steel and wire - No other recovery	PID = 0.0 ppm				
4249							
	16						
4248							
	17						
4247							
	18						
4246							
	19						
4245		(SM) - Silty Sand with Clay, dry, red, very fine grained, calcareous, becomes pink to reddish pink at 20.9' with black material along fracture	PID = 3.2 ppm				Base of cell at 19.5' Core run 5, 19.5-24.5' Rec=5.0'/5.0'
	20						
4244							
	21						
4243							
	22						
4242							
	23						

HTW DRILLING LOG

HOLE NO. 113-05

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4241	24						
4240	25	(SM) - Silty Sand, dense, dry, white to reddish-pink, very fine grained, calcareous, caliche nodules up to 1" diameter	PID = 4.7 ppm		CAN113 B305-1024 CAN113 B305-0503 (MRD) Dupe	21 26	COE #021 N=64 Rec=1.4'/2.0' Time: 0912 MRD #001
4239	26					38 53	
4238	27						
4237	28						
4236	29						
4235	30	(SM) - as above, very dense, white to pink, caliche nodules up to 1/2" diameter	PID = 40.0 ppm		CAN113 305-1029 (COE #022)	12 41	N=93 Rec=2.0'/2.0' Time: 0935
4234	31					52 85	
4233	32						

HTW DRILLING LOG

HOLE NO. 113-05

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232							
	33						
4231							
	34						
4230		(SM) - Silty Sand, very dense, dry, very fine-grained, pink with white streaks and patches	PID = 0.0 ppm			45	N=146 Rec=1.4'/2.0'
	35					91	
4229						55	
	36					55	
4228							
	37						
4227							
	38						
4226							
	39						
4225		(SM) - Silty Sand, very dense, dry, pink with red patches and caliche nodules	PID = 0.0 ppm		CAN113 B305-1039 (COE) #023)	43	N=100+ Rec=0.7'/0.8' Time: 0935
	40					100+	
4224							Split spoon refusal at 40.4
	41						

HTW DRILLING LOG

HOLE NO. 113-05

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							No sample
4223							
	42						
4222							
	43						
4221							
	44						
4220		(SM) - Silty Sand, very dense, dry, pink, calcareous	PID = 0.0 ppm			20	N=100+ Rec=0.8'/1.0'
	45					100+	
4219							Split spoon refusal at 45.5'
	46						
4218							
	47						
4217							
	48						
4216							
	49						
4215		Caliche, dry, pink, some nodules up to 1/2"	PID = 0.0 ppm		CAN113 B305-1049 (COE #024)	17	N=147+ Rec 1.2'/1.5' Time: 1051
	50						

/CORPS-B/12-01-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-05

HTW DRILLING LOG

HOLE NO. 113-05

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4214						47	
						100+	
	51						Split spoon refusal at 51.0
4213							
	52						
4212							
	53						
4211							
	54						
4210		Caliche, dry, pink, calcareous	PID = 0.0 ppm			46	N=100+ Rec=0.9'/0.9'
	55					100+	
4209							Split spoon refusal at 55.4'
	56						
4208							
	57						
4207							
	58						
4206							
	59						

HTW DRILLING LOG

HOLE NO. 113-05

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4205							
	60	Caliche, very dense, dry, pink to gray-white	PID = 0.0 ppm		CAN113 B305-0504 (MRD #002) CAN113 B305-1059 (COE #025)	100+	N=100+ Rec=0.5'/0.5' Time: 1228
4204						100+	N=200+ Rec=0.8'/0.8' Time: 1228
						100+	
	61	TD=60.8'					(Two split-spoon drives)
4203							
	62						Borehole grouted to surface w/ cement/bentonite grout 13 bags cement 1 bag bentonite
4202							
	63						
4201							
	64						
4200							
	65						
4199							
	66						
4198							
	67						
4197							
	68						

HTW DRILLING LOG

HOLE NO.	113-06
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 8 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 1/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon with s.s. liners
8. HOLE LOCATION	N1850, E2025
9. SURFACE ELEVATION	4264.9
10. DATE STARTED	07/30/95
11. DATE COMPLETED	07/31/95
12. OVERBURDEN THICKNESS	58'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	58.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	2	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264	1	FILL - Clayey Silty Sand, dry, tan to dark brown with white, red-brown spots, calcareous, a few roots in upper 6"	PID = 0.0 ppm				PID readings recorded as above background Core run 1, 0-5' Rec = 2.8'/5.0'
4263	2						
4262	3	FILL - Sandy Silty Clay, slightly moist, red-brown to brown with white, tan, and red spots, calcareous, and trash (20%), plastic, metal, glass, partially burned	PID = 0.0 ppm				
4261	4						
4260	5						

HTW DRILLING LOG

HOLE NO. 113-06

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL - Sandy Silty Clay, slightly moist, red-brown, calcareous					Core run 2, 5-10' Rec = 1.0'/5.0'
4259	6		PID = 36 ppm				
4258	7	FILL - metal wire (heavy gauge), plastic, wood fragments (50%)					
4257	8						
4256	9						
4255	10	FILL - Silty Sand, slightly Clayey, dry, tan to dark brown with red-brown, tan, white spots and streaks, fine grained, calcareous, and trash: plastic, glass, paper, cardboard, heavy wire (chain link fence?), (50%)	PID = 102 ppm				Core run 3, 10-15' Rec = 1.5'/5.0'
4254	11						
4253	12						
4252	13						
4251	14						

HTW DRILLING LOG

HOLE NO. 113-06

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250	15	FILL - Silty Sand, dry, light pink-brown, fine grained, calcareous, with a little wire and plastic	PID = 0.0 ppm				Core run 4, 15-20' Rec = 4.0'/5.0'
4249	16	(SM) - Silty Sand, slightly Clayey, light orange-brown, fine grained, occasional quartz grains, occasional caliche nodules up to 1/2"	PID = 0.0 ppm				Base of cell at 16'
4248	17						
4247	18						
4246	19						
4245	20	(SM) - Silty Sand, slightly Clayey, dry, orange-brown, fine grained, with abundant caliche nodules up to 1/2" diameter, white	PID = 0.0 ppm		CAN113-B306-1020	16	N = 117 Rec = 1.5'/1.9' Time: 1555
4244	21					38	
						79	
4243						100+	
	22						Split spoon Refusal at 21.9'
4242	23						

HTW DRILLING LOG

HOLE NO. 113-06

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4241	24						
4240	25	(SM) - Silty, Clayey Sand, dense, dry, orange-brown, fine-medium grained, abundant quartz grains, partially cemented to caliche, some white patches, occasional caliche nodules up to 1", white	PID = 0.0 ppm		CAN113-8306-1025	8	N = 65 Rec = 1.6'/2.0' Time: 1610
4239	26					30	
						35	
4238	27					37	
4237	28						
4236	29						
4235	30	(SM) - Silty Sand, mottled tan red-brown, white, small black streaks, calcareous, partially cemented to caliche	PID = 101 ppm			24	Rec = 0.9'/0.9'
4234						100+	
	31						Split spoon Refusal at 30.9'
4233	32						

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-06

HTW DRILLING LOG

HOLE NO. 113-06

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232	33						
4231	34						
4230	35	(SM) - Silty Clayey Sand, dense, dry, orange-brown, fine to medium grained, calcareous, occasional quartz grains, abundant caliche nodules up to 2", white, occasional black spots	PID = 0.0 ppm		CAN113-B306-1036	7	N = 66 Rec = 1.8'/2.0' Time: 1635
4229	36					27	
						39	
4228	37					51	
4227	38						
4226	39						
4225	40	(SM) - Silty Sand, dense, dry, light orange-brown, fine medium grained, calcareous, occasional quartz grains, small black spots and streaks, occasional caliche nodules up to 1/2", white	PID = 0.0 ppm			23	N = 79 Rec = 2.0'/2.0'
4224	41					41	

HTW DRILLING LOG

HOLE NO. 113-06

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						38	
4223	42					35	
4222	43						
4221	44						
4220	45	(SM) - Silty Sand, dense, dry, light orange-brown, fine grained, calcareous, occasional caliche nodules up to 1/2", white	PID = 0.0 ppm		CAN113-B306-1045	24	N = 64 Rec = 1.6'/2.0' Time: 1710
4219	46					31	
						33	
4218	47					33	
4217	48						
4216	49						
4215	50						

HTW DRILLING LOG

HOLE NO. 113-06

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4214	51	(SM) - Silty Sand, medium dense, dry, light orange-brown, fine to medium grained, calcareous, abundant quartz grains, with occasional white streaks, no caliche	PID = 0.0 ppm			16 20 16 14	N = 36 Rec = 2.0'/2.0'
4213	52						
4212	53						
4211	54						
4210	55	(SM) - Silty Sand, dry, light orange-brown, fine grained, calcareous, with occasional caliche nodules up to 1/2" diam., white	PID = 0.0 ppm		CAN113-B306-1055 CAN113-B306-0561 (Dup)	67 100+ 100+	N = 200 Rec = 1.3'/1.3' Time: 1800
4209	56						
4208	57		PID = 0.0 ppm			77 100+ 100+	Split spoon Refusal at 56.3' Redrive N = 200 Rec = 1.3'/1.3'
4207	58						
4206	59	TD = 58'					Split spoon refusal at 57.5' Borehole grouted to surface with cement/bentonite grout

HTW DRILLING LOG

HOLE NO. 113-06

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							9 bags cement, 1 bag bentonite used
4205	60						
4204	61						
4203	62						
4202	63						
4201	64						
4200	65						
4199	66						
4198	67						
4197	68						

HTW DRILLING LOG

HOLE NO.	113-07
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Enviromental Services
SHEET	1 OF 8 SHEETS
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3-1/4" I.D.; HSA, 5' CME Core barrel w/ polybutyrate liners and 2-1/2" I.D. CA. split spoon w/ s.s. liners
8. HOLE LOCATION	N1750, E1971
9. SURFACE ELEVATION	4264.3
10. DATE STARTED	07/20/95
11. DATE COMPLETED	07/21/95
12. OVERBURDEN THICKNESS	60.9'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	60.9'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	2	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264		FILL (SM) - Silty Sand, dry, light-brown, fine-grained, calcareous, and thin white caliche layers	PID = 0.0 ppm		CAN113 B307-0000		Time: 1745 Core run 1, 0-4.5' Rec = 2.8'/4.5'
4263	1	FILL (SM) - Silty Sand, red and pink-white, fine-grained, calcareous, roots to 1' depth (no trash)	PID = 0.0 ppm				PID readings are recorded as above background
4262	2						
4261	3						
4260	4						Core run 2, 4.5-9.5' Rec = 4.0'/5.0'
	5						

HTW DRILLING LOG

HOLE NO.	113-07
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	David K Nicholson
SHEET 2 OF 8 SHEETS	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4259		FILL (CL) - Silty Clay, sandy, slightly moist, pink, red, brown, calcareous, mottled	PID = 0.0 ppm				
4258	6						
		One can, glass, small amount of plastic in core, no evidence of burning Trash only 1/100 of core					
4257	7						
4256	8						
4255	9						
		FILL (CL) - Silty Clay, sandy, moist, pink, red, white, calcareous, mottled with glass and paper (small amount)	PID = 0.0 ppm				Core run 3, 9.5-14.5' Rec = 1.7'/5.0'
4254	10						
4253	11						
4252	12						
4251	13						
	14						

HTW DRILLING LOG

HOLE NO. 113-07

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250							
	15	FILL (CL) - Silty Clay, moist, red, calcareous, No trash	PID = 0.0 ppm				Core run 4, 14.5-19.5' Rec = 0.9'/5.0'
4249							
	16						
4248							
	17						
4247							
	18						
4246							
	19						Base of Cell at 19' Resume drilling 7/21/95, 0750 at 19.5' Core run 5, 19.5-24' Rec = 2.3'/4.5'
4245							
	20	(CL) Sandy Clay, with Silt, slightly moist, red, calcareous. No trash	PID = 0.0 ppm				
4244							
	21						
4243							
	22						
4242							
	23						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-07	Landfill No. 5 Phase 1 RFI	David K Nicholson	4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4241							
4240	24	(SM) - Clayey Sand, with Silt, dense, slightly moist, a few white caliche nodules, calcareous, one hunk of metal in spoon about 2" across	PID = 0.0 ppm		CAN113 B307-1024 (COE #034)	20 21 33 38	N = 54 Rec = 1.8'/2.0' Time: 0818
4239	25						
4238	26						
4237	27						
4236	28						
4235	29	(SM) - Silty Sand, very dense, dry, white to pink (mottled), fine grained, calcareous	PID = 0.0 ppm		CAN113 B307-1029 (COE #035)	22 48 56 100+	N = 104 Rec = 1.8'/1.8' Time: 1115
4234	30						
4233	31						Split spoon refusal at 30.8'
	32						

HTW DRILLING LOG

HOLE NO. 113-07

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232							
	33						
4231							
	34	(SM) - Silty Sand, very dense, dry, pink, fine grained, calcareous, with fractures healed with tan white material (caliche)	PID = 0.0 ppm				
4230						14	N = 115 Rec = 1.8'/1.8'
						43	
	35						
4229						72	
						100	
	36						Split Spoon refusal at 35.8'
4228							
	37						
4227							
	38						
4226							
	39	(SM) - Silty Sand, dense, dry, pinkish orange, very fine grained, calcareous	PID = 0.0 ppm		CAN113 B307-1039 (COE #036)		
4225						20	N = 82 Rec = 2.0'/2.0' Time: 1156
						48	
	40						
4224						42	
						70	
	41						

HTW DRILLING LOG

HOLE NO. 113-07

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4223							
	42						42
4222							
	43						43
4221							
	44	(SM) - Silty Sand, slightly clayey, very dense, dry, pink, very fine grained, calcareous	PID = 0.0 ppm			18	N = 90 Rec = 2.0'/2.0' 44
4220						51	
	45	(SM) - slightly Clayey Sand, very dense, dry, red, very fine grained, calcareous, with white caliche nodules	PID = 0.0 ppm			39	45
4219						52	
	46						46
4218							
	47						47
4217							
	48						48
4216							
	49	(SM) - Silty Sand, dense, dry, pinkish-orange, fine grained, calcareous, with a few caliche nodules to 1/4"	PID = 0.0 ppm		CAN113 B307-1049 (COE #037)	16	N = 62 Rec = 1.6'/2.0' Time: 1245 49
4215						28	
	50						50

HTW DRILLING LOG

HOLE NO. 113-07

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4214						34	
						31	
	51						
4213							
	52						
4212							
	53						
4211							
	54	(SM) - Silty Sand, very dense, slighty moist, pinkish-orange, very fine grained, calcareous	PID = 0.0 ppm				
4210						26	N = 126 Rec = 2.0'/2.0'
						46	
	55	(SM) - Silty Sand, very dense, dry, pinkish-orange calcareous					
4209						80	
						46	
	56						
4208							
	57						
4207							
	58						
4206							
	59						

HTW DRILLING LOG

HOLE NO. 113-07

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4205		(SM) - Silty Sand, very dense, dry, pinkish orange, fine grained, calcareous	PID = 0.0 ppm		CAN113 B307-1059 CAN113 B307-0562	35	N = 202 Rec = 1.9'/1.9' Time: 1355
						82	
	60						60
4204						120	
						100	
	61	TD = 60.9'					Auger refusal at 60.9' 61
4203							Bore hole grouted to surface with cement/bentonite grout 10 bags of cement 1/2 bag bentonite
	62						62
4202							
	63						63
4201							
	64						64
4200							
	65						65
4199							
	66						66
4198							
	67						67
4197							
	68						68

HTW DRILLING LOG

HOLE NO.	113-08
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 7 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	D. Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 3/4" I.D. HSA; 5'CME core barrel w/polybutyrate liners; 3" O.D. Calif. split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N1450, E2020
9. SURFACE ELEVATION	4264.9
10. DATE STARTED	07/20/95
11. DATE COMPLETED	07/21/95
12. OVERBURDEN THICKNESS	57'
15. DEPTH GROUNDWATER ENCOUNTERED	NA
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	NA
14. TOTAL DEPTH OF HOLE	57.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	1	2	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			J.B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264	1	FILL (ML) - Silt, little Clay, stiff, dry, dark reddish brown to brown, trace medium grained quartz, rootlets in various intervals, possible fracture between 2-3' at 75 degrees from horizontal, caliche nodules abundant at 2' and 3.5'	PID = 0.0ppm				Core run 1, 0-4' REC = 3.8'/4.0' No trash observed 0-4' All PID results are reported above background
4263	2						
4262	3						
4261	4	FILL (ML) - Silt, some Sand, medium stiff to stiff, dry, light reddish brown to pink-brown, fine grained quartz, some caliche nodules	PID = 0.0ppm				Core run 2, 4-9'
4260	5						

HTW DRILLING LOG

HOLE NO. 113-08

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Trace paper debris at 5'					
4259	6						
4258	7						
4257	8	FILL (ML) - Silt, trace Clay, Sandy, stiff, dry, dark red-brown, caliche nodules and blobs throughout, plastic bags, glass, and styrofoam in one foot (8-9')					
4256	9	FILL (ML) - Silt, as above, damp, no stain or discoloration observed, plastic bag, paper, aluminum can, plastic, glass all in top 1.5' of interval (11-12.5'), caliche throughout	PID = 0.0ppm				Core run 3, 9-14' Rec = 3.0'/5.0'
4255	10						
4254	11						
4253	12						
4252	13	FILL (ML) - Silt, some Sand and Clay, stiff, damp, light red-brown, clays moderate plasticity, caliche nodules, plastic bag debris at 13.6'	PID = 0.0ppm				
4251	14						

HTW DRILLING LOG

HOLE NO. 113-08

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250	15	FILL (ML) - Silt, as above, trace plastic bag - may be sluff (at 15.4')					Core run 4, 14-19' Rec=3.5'/5.0'
4249	16	(SM) - Sand, trace Silt, loose to medium dense, dry, dark orange red to reddish brown, caliche nodule in part, caliche 2" layer at 18', no trash observed, fine to medium grained quartz					Base of cell at 15.5'
4248	17						
4247	18						
4246	19		PID=0.0ppm				
4245	20	(SM) - Sand, as above, dense, dry, no caliche present	PID=0.0ppm	CAN113 B308-4020	CAN113 B308-1020	20	Resume drilling 7/21/95 N=82 Rec=2.0'/2.0' Time: 0749
4244	21					36	
						46	
4243	22					46	
4242	23						

HTW DRILLING LOG

HOLE NO. 113-08

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4241	24						
4240	25	(SM) - Sand, as above, medium dense, trace of caliche	PID = 0.0ppm		CAN113 B308-1025 CAN113 B308-0563	14	N = 34 Rec = 2.0'/2.0' Time: 0810
4239	26					19	
						15	
4238	27	(SM) - Sand, medium dense, slightly damp				16	
4237	28						
4236	29						
4235	30		PID = 0.0ppm			9	N = 29 Rec = 0.8/2.0'
4234	31					10	
		(SM) - very Silty Sand, medium dense to dense, dry, light pink to buff, very calcareous, well cemented, sand grains fine to medium, subangular				19	
4233	32					30	

HTW DRILLING LOG

HOLE NO. 113-08

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		(SM) - Sand, trace Silt, medium dense, dry, reddish orange brown, rare caliche nodule					
4232	33						
4231	34						
4230	35	(SM) - Sand, trace Silt, very dense, dry, buff, well cemented with calcareous cement, medium grained quartz, subrounded to rounded, lowest 4 inches (35.7') caliche	PID = 0.0ppm		CAN113 B308-1035	56 / 100+	N = 100+ Rec = 0.9'/0.9' Time: 0840
4229	36						Split spoon refusal at 35.9'
4228	37						
4227	38						
4226	39						
4225	40	Caliche, very hard, dry, pink to buff, very calcareous, quartz grains fine to medium, subangular to subrounded, rare caliche nodules, becoming more calcareous cemented with depth	PID = 0.0ppm			27 / 70	N = 170+ Rec = 1.4'/1.4'
4224	41						

HTW DRILLING LOG

HOLE NO. 113-08

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						100+	
4223	42						Split spoon refusal at 41.4'
4222	43						
4221	44						
4220	45	(SM) - Sand, some Silt, trace Clay, medium dense, dry, light reddish orange, calcareous, some mottling	PID = 0.0ppm		CAN113 B308-1045	12	N = 45 Rec = 2.0'/2.0' Time: 0957
4219	46					20	
						25	
4218	47					25	
4217	48						
4216	49						
4215	50						

HTW DRILLING LOG

HOLE NO. 113-08

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4214	51	(SM) - Sand, trace Silt, very dense, dry, light reddish tan, fine grained, rare medium grained quartz, calcareous	PID = 0.0ppm			21 74 100+	N = 174+ Rec = 1.2'/1.4'
4213	52						
4212	53						
4211	54						
4210	55						
4209	56	(SM) - Sand, some Silt, dense, dry, buff to light pinkish brown, quartz grains, predominantly fine with trace medium and rare coarse grains, subrounded to rounded, calcareous	PID = 0.0ppm		CAN113 B308-1055	40 40 42 50	N = 82 Rec = 2.0'/2.0' Time: 1035
4208	57	TD = 57'					Stop drilling at 1032 on 7/21/95 Grouted borehole with cement - bentonite grout mixture from surface to 57' Grout mixture: 8 bags portland cement 1 bag bentonite
4207	58						
4206	59						

HTW DRILLING LOG

HOLE NO.	113-09
SHEET 1 OF 7 SHEETS	

1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	D. Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4' I.D. HSA; 5' CME core barrel w/polybuytrate liners; 3" O.D. Calif. split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N700, E1950
9. SURFACE ELEVATION	4261.8
10. DATE STARTED	07/28/95
11. DATE COMPLETED	07/29/95
12. OVERBURDEN THICKNESS	54.3
15. DEPTH GROUNDWATER ENCOUNTERED	NA
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	NA
14. TOTAL DEPTH OF HOLE	54.3'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			J.B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
			PID results reported above background				Core run 1, 0-4' Rec = 1.4'/4.0'
4261	1						
4260	2						
4259	3	FILL (SM) - Sand, some Silt, medium dense, dry, light reddish brown, predominantly fine grained with some medium grained, trace paper, styrofoam	PID = 0.0ppm				
4258	4						Core run 2, 4-9' Rec = 0.3'/5.0'
4257	5						

HTW DRILLING LOG

HOLE NO.	113-09
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	J.B. DuBois
SHEET	2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4256	6						
4255	7						
4254	8						
4253	9	FILL (SM) - Sand, as above, caliche nodules present, trash includes plastic and thread					Core run 3, 9-14 Rec = 2.4'/5.0'
4252	10						
4251	11	FILL (SM) - Sand, some Silt, trace Clay, medium dense, damp to dry, dark reddish brown, very fine to fine grained, trace medium grained caliche present, minimal trash from 11.6-12.5', plastic, paper, cardboard, shoestring, metal	PID = 0.0ppm				
4250	12						
4249	13						Base of cell at 12.5'
4248	14						

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-09

HTW DRILLING LOG

HOLE NO. 113-09

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4247	15	(SM) - Sand, some Silt, medium dense, dry, dark reddish orange, very fine to fine grained, becoming calcareous in lower 1 1/2' (16.5-18')					Core run 4, 14-19' Rec=3.7'/4.0'
4246	16						
4245	17						
4244	18	(SM) - Sand, some Silt, medium dense to dense, dry, light pink to light reddish brown, very fine to fine grained, trace medium grained, slightly to very calcareous	PID = 0.0ppm		CAN113 B309-1018	19	N=49 Rec=2.0'/2.0' Time: 1528
4243	19					20	
						29	
4242	20					40	
4241	21						
4240	22						
4239	23						

HTW DRILLING LOG

HOLE NO. 113-09

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4238	24						
4237	25	(SP) - Sand, trace Silt, very dense, dry, buff to light reddish tan, very fine to fine grained, with some medium grained, calcareous, well cemented	PID = 0.0ppm	CAN113 B309-4025	CAN113 B309-1025	48	N = 180+ Rec = 1.5'/2.0' Time: 1555
4236	26					80	
						100+	
4235	27						Split spoon refusal at 26.5'
4234	28						
4233	29						
4232	30		PID = 0.0ppm			10	N = 50 Rec = 1.1'/2.0'
4231	31	(SM) - Sand, some Silt, very dense, dry, light pink to light reddish orange, dry, very fine to fine grained in upper 8" with rare medium and coarse grained quartz, becoming medium grained to 32', very calcareous				20	
						30	
4230	32					50	

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET 5 OF 7 SHEETS
113-09	Landfill No. 5 Phase 1 RFI	J.B. DuBois	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		in lowest 6" (31.5-32')					
4229	33						
4228	34						
4227	35	(SM) - Sand, some Silt, dense, dry, reddish brown becoming pink in lower foot, very fine to fine grained, medium grained in upper foot (35-36'), subrounded, very calcareous between 36-37'	PID = 0.0ppm		CAN113 B309-1035 CAN113 B309-0564 (QA)	15	N = 60 Rec = 1.9'/1.9' Time: 1633
4226	36					20 40	
4225						100 +	
4224	37						
4223	38						
4222	39						
4221	40	(SM) - Sand, some Silt, dense, dry, pink to pinkish tan, very fine to fine grained with trace medium grained, poorly sorted, very calcareous, well cemented	PID = 0.0ppm			14 15	N = 32 Rec = 1.3'/2.0'
	41						

HTW DRILLING LOG

HOLE NO. 113-09

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4220	42	(SP) - Sand, trace Silt, medium dense, dry, reddish orange, predominantly medium grained, some fine grained, well sorted, poorly cemented				17 19	
4219	43						
4218	44						
4217	45	(SP) - Sand, trace Silt, medium dense, dry, light to medium pinkish tan, fine grained with some medium grained, very calcareous and well cemented in upper 8" (45-45.7'), becoming well sorted and poorly cemented in lower portion	PID = 0.0ppm		CAN113 B309-1045	10	N = 32 Rec = 2.0'/2.0' Time: 1658
4216	46					14 18	
4215	47					29	
4214	48						
4213	49						
4212	50						

HTW DRILLING LOG

HOLE NO. 113-09

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4211	51						
4210	52						
4209	53	(SP) -Sand, trace Silt, very dense, dry, light pink to buff, predominantly fine grained, some medium grained quartz, well cemented, very calcareous	PID = 0.0ppm		CAN113 B309-1053	82	N = 198 + Rec = 1.3'/1.3' Time: 1737
4208	54					98 / 100 +	
4207	55	TD = 54.3'					Split spoon refusal at 54.3'
4206	56						Stopped drilling at 1734 at 54.3' on 7/28/95
4205	57						7/29/95 Grout borehole with bentonite Portland cement mixture: 3/4 bag bentonite 8 bags portland cement
4204	58						
4203	59						

HTW DRILLING LOG

HOLE NO.	113-10
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 8 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russel Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 1/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon w/s.s. liners
8. HOLE LOCATION	N1000, E1950
9. SURFACE ELEVATION	4263.6
10. DATE STARTED	07/19/95
11. DATE COMPLETED	07/19/95
12. OVERBURDEN THICKNESS	65'
15. DEPTH GROUNDWATER ENCOUNTERED	NA
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	NA
14. TOTAL DEPTH OF HOLE	65.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL (SM) - Silty Sand, dry, red-brown, slightly calcareous	PID = 0.0ppm		CAN113 B310-1000 CAN113 B310-0565		Time: 0820
4263		FILL (SM) - Silty Sand, dry, pinkish-white to red, calcareous					
	1						Core run 1, 0-4.5' Rec = 4.0'/4.5'
4262							
	2						PID readings are recorded as above background
4261		Some plastic, paper					
	3	Same as above, no evidence of burning					
4260							
	4						
4259							Core run 2, 4.5-9.5' Rec = 3.2'/5.0'
	5						

HTW DRILLING LOG

HOLE NO. 113-10

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4258	6	FILL (SM) - Silty Sand, dry, pinkish to red, some small black spots, slightly calcareous, trash is scattered in 2" segments: plastic bags, paper, no evidence of burning	PID = 0.0ppm				
4257	7						
4256	8						
4255	9						
4254	10	FILL (SM) - Silty Sand, dry, pinkish white, calcareous, with cardboard and plastic pieces, plastic bags, clayey between 9.5-10' depth (CL)	PID = 0.0ppm				Core run 3, 9.5-14.5' Rec = 3.4'/5.0'
4253	11						
4252	12						
4251	13						
4250	14						

HTW DRILLING LOG

HOLE NO. 113-10

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4249	15	FILL (SM) - Silty Sand, dry, pinkish-white, slightly calcareous, with scattered trash to the bottom of core - paper, plastic bags, plastic parts, Alpo can, no evidence of burning					Core run 4, 14.5-19.5' Rec=3.0'/5.0'
4248	16		PID=0.0ppm				
4247	17						
4246	18						
4245	19						
4244	20	FILL (SM) - Silty Sand, dry, pinkish white, calcareous, some caliche nodules, no trash, no burning	PID=0.0ppm				Core run 5, 19.5-24.5' Rec=3.0'/5.0'
4243	21						
4242	22						
4241	23						

HTW DRILLING LOG

HOLE NO. 113-10

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4240	24	Leaves, 1 plastic sheet Black-brown discoloration in 1" below plastic					
4239	25	(SM) - Silty Sand, dry, pinkish-white to red, slightly moist and clayey in upper 6", calcareous, some caliche nodules, no trash, Native Material	PID = 0.0ppm				Base of cell at 24' Driller reported increased resistance
4238	26						
4237	27						Rec = 5.0'/5.0'
4236	28						
4235	29						
4234	30	(SM) - Silty Sand, very dense, dry, pink to white, a few caliche nodules	PID = 0.0ppm		CAN113 B310-1029 (COE #009)	28 54 52	Begin split spoon sampling N = 106 Rec = 1.5'/1.5' Time: 1007
4233	31						
4232	32						

HTW DRILLING LOG

HOLE NO. 113-10

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4231	33						
4230	34	(SM) - Silty Sand, very dense, dry, pink to white, calcareous	PID = 0.0ppm		CAN113 B310-1034	100+	N = 116+ Rec = 1.3'/1.3' Time: 1102
4229	35					16 100+	
4228	36						Split Spoon refusal at 35.3'
4227	37						
4226	38						
4225	39	(SM) - Silty Sand, very dense, dry, pinkish-white to red, slightly calcareous	PID = 0.0ppm			15 100+	N = 100+ Rec = 0.9'/0.9'
4224	40						Split Spoon refusal at 39.9'
4223	41						

HTW DRILLING LOG

HOLE NO. 113-10

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4222	42						
4221	43						
4220	44	(SM) - Silty Sand, very dense, dry, pink to reddish-pink, slightly calcareous	PID = 0.0ppm		CAN113 B310-1044 (COE #011)	33	N = 99 Rec = 1.8'/2.0' Time: 1140
4219						43	
	45					56	
4218						44	
	46						
4217							
	47						
4216							
	48						
4215							
	49	(SM) - Silty Sand, very dense, dry, pink, slightly calcareous	PID = 0.0ppm			100+	N = NA Rec = 0.2'/0.5'
4214							Split spoon refusal at 49.5'
	50						

HTW DRILLING LOG

HOLE NO. 113-10

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4213	51						
4212	52						
4211	53						
4210	54	Caliche, dry, pink	PID = 0.0ppm		CAN113 B310-1054 (COE #012)	41	N = 141 + Rec = 1.0'/1.0' Time: 1215
4209						100 +	
	55						Split Spoon refusal at 55.0'
4208	56						
4207	57						
4206	58						
4205	59						

/CORPS-B/12-01-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-10

HTW DRILLING LOG

HOLE NO. 113-10

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4204		(No recovery)	PID = 0.0ppm			100+	N = 100+ Rec = 0.8'/0.8'
		(SM) - Silty Sand, very dense, dry, pink				100+	Split Spoon refusal at 59.8'
	60						
4203							
	61						
4202							
	62						
4201							
	63						
4200							
	64	Caliche, dry, pink-white, calcareous, some caliche	PID = 0.0ppm		CAN113 B310-1064 (COE #013)	100+	N = 185+ Rec = 1.0'/1.0' Time: 1350
4199						85	
	65	TD = 65'					Split Spoon refusal at 65'
4198							
	66						Borehole grouted to surface with cement/bentonite grout 15 bags cement 1 bag bentonite
4197							
	67						
4196							
	68						

/CORPS-B/12-01-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-10

HTW DRILLING LOG

HOLE NO.	113-11
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 9 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' cME core barrel w/ polybutyrate liners and 3" O.D. Calif. split spoon w/s.s. liners 1" I.D. split spoon
8. HOLE LOCATION	N1250, E1900
9. SURFACE ELEVATION	4264.7
10. DATE STARTED	07/19/95
11. DATE COMPLETED	07/19/95
12. OVERBURDEN THICKNESS	66.4'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	66.4'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL - medium brown, grass at top	PID = 0.0 ppm				Started drilling @ 0917 7/19/95 PID results reported above background
4264	1	FILL (ML) - Silt, with some Clay, loose to medium dense, dry, medium brown, with reddish brown clay silt, 3" layer, little caliche nodules					Core run 1, 0-4'
4263	2	Increasing amount of caliche with depth					
4262	3						
4261	4						Core run 2, 4-9' Rec = 1.4'/5.0'
4260	5	FILL - Contact with styrofoam material, thin layer only	PID = 0.0 ppm				

/CORPS-B/12-01-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-11

HTW DRILLING LOG

HOLE NO. 113-11

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4259							
	6						
4258							
	7						
4257		FILL (ML) - Silt, with some Clay, loose, dry, red-brown to medium brown,occasional caliche nodules trace of organic material and plastic bag					
	8						
4256							
	9						Core run 3, 9-14'
4255							No recovery in trash layer
	10						Shoe recovery included plastic bag, oily wood piece (3" long)
4254							
	11						
4253							
	12						
4252							
	13						
4251							
	14						

HTW DRILLING LOG

HOLE NO. 113-11

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250		FILL - Landfill debris 14-15', includes plastic bag and insulation - type material, some paper					Core run 4, 14-19' Rec=4.5'/5.0' Insulation material not know if asbestos
	15	FILL (SM) - Sand, with little Silt, loose to medium dense, dry, medium to dark tan, caliche nodules, and clayey silt nodules or clasts (reddish brown), trace of plastic bag	PID=0.0 ppm				
4249							
	16						
4248							
	17						
4247							
	18						
4246							
	19		PID=0.0 ppm				Core run 5, 19-24' Rec=3.4'/5.0'
4245							
	20						
4244		FILL - Paper debris, plastic bag (~20.6-21')					
	21						
4243							
	22						
4242							
	23						

HTW DRILLING LOG

HOLE NO. 113-11

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 4 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4241	24	FILL - Paper debris, plastic bag, plastic, paper, and wood debris (25-26')					Core run 6, 24-29' Rec=4.0'/5.0'
4240	25						No evidence of burned material in landfill
4239	26						Base of cell at 26'
4238	27						
4237	28						
4236	29	(SP) - Sand, trace Silt, medium dense to dense, dry, buff to pink, very fine grained quartz well sorted	PID=0.0 ppm				
4235	30	(SP) - Sand, as above, medium dense to dense, pink to pinkish tan, with trace of caliche nodules, trace gray quartz grains					
4234	31		PID=0.0 ppm		CAN113-8311-1031	28	N= 77 Rec=2.0'/2.0' Time: 1110
4233	32					35	

/CORPS-B/11-30-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-11

HTW DRILLING LOG

HOLE NO. 113-11

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 5 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232	33					42 43	
4231	34						
4230	35	Sand, as above, very dense	PID = 0.0 ppm		CAN113-8311-1035	68 100+	N = 100+ Rec = 0.8'/0.8' Time: 1148
4229	36						Split spoon refusal at 35.8'
4228	37						
4227	38						
4226	39						
4225	40	Sand, as above, (from cuttings), some calcareous cement				100+	N = N/A Rec-0.0'/0.4'
4224	41						Split spoon refusal at 40.4', no recovery

HTW DRILLING LOG

HOLE NO. 113-11

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 6 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4223	42						
4222	43						
4221	44	(SM) - Sand, some Silt, medium dense, dry, buff, fine to medium grained, no apparent bedding, silty sand, red-brown, 2" layer quartz grains, fine to medium grained				20 27 27 28	N=54 Rec.=1.4'/2.0'
4220	45	Sand, as above, very dense, increasing amount of red-brown silty sand	PID=0.0 ppm	CAN113-B311-4045	CAN113-B311-1045	26 36 26 30	N=62 Rec=2.0'/2.0' Time: 1244
4219	46						
4218	47						
4217	48						
4216	49						
4215	50						

HTW DRILLING LOG

HOLE NO. 113-11

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 7 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		(SM) - Sand, some Silt, very dense, dry, buff, occasional caliche nodules, fine to medium grained	PID = 0.0 ppm			14	N = 120 Rec = 1.8'/2.0'
4214						50	
	51					70	
4213						85	
	52						
4212							
	53						
4211							
	54						
4210							
	55	(SM) - Silty Sand, very dense, damp, red-brown, medium grain, top 8" buff colored, very fine to fine grained, medium dense, dry	PID = 0.0 ppm		CAN113-8311-1055	20	N = 96 Rec = 2.0'/2.0' Time: 1319
4209						50	
	56					46	
4208						50	
	57						
4207							
	58						
4206							
	59						

HTW DRILLING LOG

HOLE NO. 113-11

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 8 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4205	60						
						60 100+	N=100+ Rec=0.8'/0.8'
4204	61						Spilt spoon refusal at approxomately 60.8'
4203	62	(SP) -Sand, trace Silt, very dense, dry, white to light pink, very fine grained, calcareous cement Sand, as above	PID=0.0 ppm			60 100+	N=100+ Rec=0.9'/0.9' Split spoon refusal at approximately 62.5'
4202	63						
4201	64						
4200	65	(SM) - Sand, some Silt, very dense, dry, buff, abundant calcareous cemented nodules, very fine to fine grained	PID=0.0 ppm		CAN113-8311-1085	48 100 100+	N=200+ Rec=1.3'/1.3' Time: 1417
4199	66						
4198	67	TD=66.4'					Split spoon refusal at 66.4' Stopped drilling at 66.4' at 1408 on 7/19/95 Grouted borehole with cement bentonite grout from surface to 66.4 Grout mixture: 13
4197	68	HH					

/CORPS-B/11-30-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-11

HTW DRILLING LOG

HOLE NO. 113-11

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 9 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							bags (100 lb each) portland cement 1 bag (50 lb) bentonite and water Grouting from 1553 to 1640, placed wood stake at site
4196							
	69						
4195							
	70						
4194							
	71						
4193							
	72						
4192							
	73						
4191							
	74						
4190							
	75						
4189							
	76						
4188							
	77						

HTW DRILLING LOG

HOLE NO.	113-12
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET	1 OF 8 SHEETS
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 1/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon w/s.s. liners
8. HOLE LOCATION	N1450, E1775
9. SURFACE ELEVATION	4264.8
10. DATE STARTED	07/27/95
11. DATE COMPLETED	07/27/95
12. OVERBURDEN THICKNESS	65.6'
15. DEPTH GROUNDWATER ENCOUNTERED	NA
13. DEPTH DRILLED INTO ROCK	0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	NA
14. TOTAL DEPTH OF HOLE	65.6'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	NA	NA	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	1	0	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264	1	FILL - Silty Sand, dry, light to dark brown, fine grained, calcareous, with white red spots and leaves, styrofoam, metal, plastic (10%), possibly burned	PID = 0.0ppm				PID readings are recorded as above background Core run 1, 0-4.5' Rec = 3.5'/4.5'
4263	2						
4262	3	FILL - Silty Sand, slightly moist, dark brown, with plastic (10%), calcareous	PID = 0.0ppm				
4261	4						
4260	5						Core run 2, 4.5-9.5' Rec = 3.5'/5.0

HTW DRILLING LOG

HOLE NO. 113-12

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL - Silty Clay, Sandy, slightly moist, pink-brown to dark brown, with white and red patches, calcareous	PID = 0.0ppm				
4259	6						
4258	7	Trash - rubber, plastic, paper, cardboard, string, charcoal (10%), burned	PID = 0.0ppm				
4257	8						
4256	9						
4255	10	Silty Sand, clayey, dry, light pink-brown to dark brown, with white patches, calcareous					Core Run 3, 9.5-14.5' Rec = 2.3'/5.0'
4254	11						
4253	12	Trash - ground glass, paper, plastic, rubber, cardboard (20%), partially burned, moderate garbage odor	PID = 0.0ppm				
4252	13						
4251	14						

HTW DRILLING LOG

HOLE NO. 113-12

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250	15	FILL - Silty Sand, clayey, dry, tan to light brown, with white and tan patches throughout up to 1/2", calcareous	PID = 0.0ppm				Core run 4, 14.5-19.5' Rec = 2.5'/5.0'
4249	16						
4248	17	Cardboard, plastic, paper, partially burned (10%), moderate garbage odor					
4247	18						
4246	19						
4245	20	FILL - Clay, Silty, Sandy, slightly moist, tan with white and red spots, calcareous	PID = 0.0ppm				Core run 5, 19.5-24.5' Rec = 3.0'/3.0'
4244	21	Styrofoam, paper, cloth, cardboard, charcoal, poosibly partially burned, slight garbage odor					
4243	22	FILL (SM) - Silty Sand, slightly clayey, orange to red, with caliche nodules to 1"					
4242	23	(SM) - Silty Sand, very dense, dry, light orange brown, partially cemented to caliche, very slight	PID = 0.0ppm				Base of cell at 22.5'

HTW DRILLING LOG

HOLE NO. 113-12

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		garbage odor					N=140+ Rec=0.8'/0.8'
4241	24						
4240	25						
4239	26						
4238	27						
4237	28	(SM) - Silty Sand, dry, light orange-brown, calcareous, with abundant caliche nodules up to 1 1/2" diameter, white	PID=0.0ppm		CAN113 B312-1027	28 73	N=149 Rec=1.8'/2.0' Time: 1430
4236	29					76 100	
4235	30						
4234	31						
4233	32						

HTW DRILLING LOG

HOLE NO. 113-12

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232	33						
4231	34	(SM) - Silty Sand, dense, dry, pinkish-tan, fine grained, calcareous, with abundant caliche nodules up to 2" diameter, white	PID = 0.0ppm		CAN113 B312-1034	22	N = 78 Rec = 1.8'/2.0' Time: 1450
4230	35					37	
4229	36					41	
4228	37					47	
4227	38						
4226	39						
4225	40	(SM) - Silty Sand, slightly clayey, very dense, dry, light pink-brown, with white streaks, calcareous, occasional quartz grains	PID = 0.0ppm			22	N = 137+ Rec = 1.0'/1.3'
4224	41					37	

HTW DRILLING LOG

HOLE NO. 113-12

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						100	
							Split spoon refusal at 41.3'
4223	42						
4222	43						
4221	44						
4220	45	(SM) - Silty Sand, dense, dry, light orange-brown, fine-grained, calcareous, with abundant caliche nodules up to 1" diameter, white to tan	PID = 0.0ppm		CAN113 B312-1045 CAN113 B312-0505	20	N = 68 Rec = 1.8'/2.0' Time: 1620
4219	46					33	
						35	
4218	47					46	
4217	48						
4216	49						
4215	50						

HTW DRILLING LOG

HOLE NO. 113-12

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		(SM) - Silty Sand, very dense, dry, light orange-brown, very fine-grained, calcareous	PID = 0.0ppm			59 100	N = 159 + Rec = 0.7'/0.7'
4214	51						Split spoon refusal at 50.7'
4213	52						
4212	53						
4211	54						
4210	55	(SM) - Silty Sand, dense, dry, light orange-brown, fine-medium grained, abundant quartz grains, calcareous, with abundant caliche nodules up to 1" diameter, white	PID = 0.0ppm		CAN113 B312-1055	17 34 48 74	N = 82 Rec = 2.0'/2.0' Time: 1634
4209	56						
4208	57						
4207	58						
4206	59						

HTW DRILLING LOG

HOLE NO. 113-12

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4205	60	(SM) - Silty Sand, very dense, dry, light orange-brown, very fine grained, calcareous, with occasional nodules up to 1/2" diameter, white	PID = 0.0ppm			61 100	N = 161 + Rec = 0.3'/0.7'
4204	61						Split spoon refusal at 60.7'
4203	62						
4202	63						
4201	64						
4200	65	(SM) - Silty Sand, dry, light orange-brown, very fine-grained, cemented to caliche, calcareous, quartz grains	PID = 0.0ppm		CAN113 B312-1065	31 100	N = 131 + Rec = 0.6'/0.6' Time: 1720
4199	66	TD = 65.6'					Split spoon refusal at 65.6'
4198	67						Borehole grouted to surface with cement/bentonite grout 12 bags cement 1 bag bentonite
4197	68						

HTW DRILLING LOG

HOLE NO.	113-13
SHEET	1 OF 8 SHEETS
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 1/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon w/s.s. liners
8. HOLE LOCATION	N850, E1900
9. SURFACE ELEVATION	4262.7
10. DATE STARTED	07/30/95
11. DATE COMPLETED	07/30/95
12. OVERBURDEN THICKNESS	64.5'
15. DEPTH GROUNDWATER ENCOUNTERED	NA
13. DEPTH DRILLED INTO ROCK	0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	NA
14. TOTAL DEPTH OF HOLE	64.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL - Silty Sand, dry, tan to dark brown, calcareous, cemented to caliche			CAN113 B313-1000		Time: 0735
4262		FILL - Sandy Clay with Silt, moist, tan to orange-brown, with mottled white and red-brown spots, calcareous					PID readings are recorded as above background
	1		PID = 0.0ppm				Core run 1, 0-4' Rec = 2.5'/4.0'
4261							
	2						
4260							
	3	Asphaltic material					
4259							
	4	Sandy Clay with Silt, moist, tan to dark brown, with white to tan spots, calcareous	PID = 6.0ppm				Core run 2, 4-9' Rec = 2.0'/5.0'
4258							
	5						

HTW DRILLING LOG

HOLE NO. 113-13

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4257		Trash (30%) - plastic, cardboard, burned, a little metal					
	6						
4256							
	7						
4255							
	8						
4254							
	9						Core run 3, 9-14' Rec = 0.1'/5.0'
4253		Cardboard, partially burned, possibly with a little asphaltic material	PID = 40.7ppm				
	10						
4252							
	11						
4251							
	12						
4250							
	13						
4249							
	14						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET 3 OF 8 SHEETS
113-13	Landfill No. 5 Phase 1 RFI	David K. Nicholson	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Core run 4, 14-19' Rec=0.0'/5.0'
4248		From cuttings - solid paper and plastic, trash					
	15						
4247			PID=0.0ppm				
	16						
4246							
	17						
4245							
	18						
4244							
	19	FILL (CL) - Sandy Clay, Silty, slightly moist, orange-brown with white spots, calcareous	PID=34ppm				core run 5, 19-23' Rec=3.0'/5.0'
4243							
	20						
4242		Trash (75%) - cardboard, paper, plastic, asphaltic material, insulation					
	21						
4241		(SM) - Silty Sand, slightly Clayey, dry, orange-brown, occasional quartz grains, occasional caliche nodules					Base of cell at 21.5'
	22		PID=0.0ppm				
4240							
	23						

HTW DRILLING LOG

HOLE NO. 113-13

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Caliche, white to orange					
4239	24	(SM) - Silty Sand with Clay, very dense, dry, light pinkish-brown with white streaks, occasional quartz grains, fine to medium grained, calcareous	PID = 0.0ppm			67	
						99	N = 192 Rec = 2.0'/2.0'
4238	25					93	
						85	
4237	26						
4236	27	(SM) - Silty Sand, slightly clayey, dry, orange-brown, fine-grained, calcareous, abundant caliche nodules up to 1 1/2" diameter, tan-white, slight asphaltic odor	PID = 80ppm		CAN113 B313-1027	14	N = 68 Rec = 2.0'/2.0' Time: 0940
4235	28					26	
						42	
4234	29					59	
4233	30						
4232	31						
4231	32						

HTW DRILLING LOG

HOLE NO. 113-13

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4230	33	(SM) - Silty Sand, clayey, medium dense, slightly moist, red-brown, fine-medium grained, calcareous, occasional quartz grains, occasional caliche nodules to 1" diameter, white, slight asphaltic odor	PID = 0.0ppm		CAN113 B313-1032 (MS/MSD)	6 11 11 13	N = 22 Rec = 1.8'/2.0' Time: 1000
4229	34						
4228	35						
4227	36	(SM) - Silty Sand, dense, dry, pinkish-brown, fine-medium grained, calcareous, with abundant caliche nodules up to 1" diameter, white, slight asphaltic odor, occasional coarse quartz grains	PID = 54ppm			14 30 35 100+	N = 65 Rec = 1.8'/1.8'
4226	37						Split spoon refusal at 36.8'
4225	38						
4224	39						
4223	40	(SM) - Silty Sand, dense, dry, light orange-brown, fine-medium grained, calcareous, no odor	PID = 0.0ppm	CAN113 B313-4040	CAN113 B313-1040	30 34	N = 72 Rec = 1.6'/2.0' Time: 1020
4222	41						

HTW DRILLING LOG

HOLE NO. 113-13

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						38	
4221						88	
	42						
4220							
	43						
4219							
	44						
4218							
	45	(SM) - Silty Sand with Clay, dense, dry, orange-brown, fine-medium grained, calcareous, abundant quartz grains, occasional hornblende (?), occasional caliche nodules	PID = 0.0ppm			12	N = 66 Rec = 2.0'/2.0'
4217						32	
	46						
						34	
4216						40	
	47						
4215							
	48						
4214							
	49						
4213							
	50						

HTW DRILLING LOG

HOLE NO. 113-13

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4212	51	(SM) - Silty Sand, very dense, dry, light orange-brown, fine-medium grained, calcareous, abundant quartz grains, occasional caliche nodules	PID = 0.0ppm		CAN113 B313-1050 CAN113 B313-0506 (MRD)	51 81 100+	N = 181+ Rec = 1.2'/1.5' Time: 1050
4211	52						Split spoon refusal at 51.5'
4210	53						
4209	54						
4208	55	(SM) - Silty Sand, dry, light pinkish-brown, fine-grained, calcareous, occasional caliche nodules	PID = 0.0ppm			100+	N = 100+ Rec = 0.3'/0.3'
4207	56						Refusal at 55.3'
4206	57						
4205	58						
4204	59						

HTW DRILLING LOG

HOLE NO. 113-13

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4203	60						
4202	61						
4201	62	(SM) - Silty Sand, very dense, dry, light pinkish-brown, fine-grained, calcareous, partially cemented to caliche	PID = 0.0ppm			100+	N = 100+ Rec = 0.3'/0.3' Split spoon refusal at 62.3'
4200	63						
4199	64	(SM) - Silty Sand, very dense, dry, light orange-brown, fine-grained, calcareous, occasional caliche nodules to 1" diameter, white	PID = 0.0ppm		CAN113 B313-1062 Composited from 62.3' to 64.5'	56 100+	N = 100+ Rec = 1.0'/1.0' Time: 1200
4198	65	TD = 64.5'					Split spoon refusal at 64.5' Borehole grouted to surface with cement/bentonite grout 9 bags cement 1 bag bentonite
4197	66						
4196	67						
4195	68						

HTW DRILLING LOG

HOLE NO.	113-14
SHEET	1 OF 9 SHEETS
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5" CME core barrel w/ polybutyrate liners and 3" O.D. Calif split spoon w/s.s. liners 1" I.D. split spoon
8. HOLE LOCATION	N1000, E1800
9. SURFACE ELEVATION	4262.6
10. DATE STARTED	07/28/95
11. DATE COMPLETED	07/28/95
12. OVERBURDEN THICKNESS	68.5'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	68.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. Dubois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
			PID results reported above background				Start drilling at 0732 on 7/28/95
4262							Core run 1, 0-4' Rec=3.2'/4.0'
	1	FILL (ML) - Silt, some Sand, medium dense, dry, medium brown, with caliche nodules throughout, no trash	PID=0.0 ppm				
4261							
	2	FILL (SP) - Sand, trace Silt, medium dense, dry, pink to buff, becoming reddish brown near 3', very calcareous, rootlets rare, no trash					
4260							
	3						
4259							
	4						Core run 2, 4-9' Rec=1.3'/5.0'
4258							
	5						

HTW DRILLING LOG

HOLE NO. 113-14

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. Dubois

SHEET 2 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4257							
	6						
4256							
	7						
4255		FILL - Damp, predominantly trash, including plastic bag, grass clippings, glass, plastic tubing	PID = 0.2 ppm				
	8						
4254							
	9						Core run 3, 9-14' Rec = 1.0'/5.0' pushing object in front of it, possibly wood Drillers comment on no recovery is that the split spoon is
4253							
	10						
4252							
	11						
4251							
	12						
4250							
	13	FILL - Predominantly trash, Sand, in part, medium dense, dry, buff, fine grained, trash includes plastic bag, string, metal, paper, odor (non chemical)	PID = 2.0 ppm				
4249							
	14						

HTW DRILLING LOG

HOLE NO. 113-14

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. Dubois

SHEET 3 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Core run 4, 14-19' Rec = 1.2'/5.0'
4248							Driller confirmed entire zone is trash (14-19')
	15						
4247							
	16						
4246							
	17						
4245							
	18	FILL - Trash including, plastic bags, metal, aluminum can, paper, twigs, dry, very little sand (buff, as above) mixed in	PID = 1.5 ppm				
4244							
	19						Core run 5, 19-24' Rec = 2.4'/2.6'
4243							
	20						
4242							
	21						
4241		FILL (SM) - Sand, some Silt, trace Clay, medium dense, damp, light brown, fine to medium grained, trace very fine grained, trace caliche	PID = 3.0 ppm				
	22						
4240		FILL - Trash including, plastic bag, wood, foam rubber, metal,					
	23						

HTW DRILLING LOG

PROJECT	INSPECTOR	HOLE NO.
Landfill No. 5 Phase 1 RFI	Jeanette B. Dubois	113-14
		SHEET 4 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		cardboard					
4239							
	24						Core run 6, 24.5-29.5' Rec=3.0'/5.0'
4238							
	25						
4237							Driller felt change in material (probably landfill/native soil) interval face to 26-27'
	26	FILL - Trash, plastic, nylon thread to ~27'	PID=1.7 ppm				
4236							
	27	(SM) - Sand, some Silt, medium dense, dry, light pink to appoximately 28', becoming buff to 29', very fine grained grading into medium grained at base, caliche nodules from 27.5-28', no trash	PID=0.0 ppm				Base of cell at 27"
4235							
	28						
4234							
	29	(SP) - Sand, trace Silt, trace Clay, medium dense, dry, light reddish brown to pinkish tan, fine grained, trace medium and coarse grained quartz, poorly sorted, calcareous					Rec=2.8'/3.0'
4233							
	30						
4232		(SP) - Sand, trace Silt, medium dense, buff, fine to medium grained, very calcareous					
	31						
4231							
	32						

HTW DRILLING LOG

HOLE NO. 113-14

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. Dubois

SHEET 5 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4230	33	(SP) - Sand, trace Silt, very dense, dry, buff, very fine to fine grained, trace medium grained, very calcareous, very well cemented	PID = 0.0 ppm		CAN113 B314-1032	32 81 94 100 +	N = 175 Rec = 1.8'/1.8' Time: 0852
4229	34						Split spoon refusal at 33.9'
4228	35						
4227	36						
4226	37						
4225	38	Caliche, very dense, buff, trace very fine to fine grained, very well cemented, very calcareous	PID = 0.0 ppm		CAN113 B314-1038	82 91 100 +	N191 + Rec = 1.1'/1.1' Time: 0924
4224	39						Split spoon refusal at 39.1'
4223	40	(SP) - Sand, trace Silt, very dense, dry, buff to light reddish brown, predominantly very fine to fine grained, trace medium grained, poorly sorted, trace subangular, subrounded	PID = 0.0 ppm			38 54	N = 154 + Rec = 0.9'/1.3' Time: 0830
4222	41						

HTW DRILLING LOG

HOLE NO. 113-14

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. Dubois

SHEET 6 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						100+	
4221	42						Split spoon refusal at 41.2'
4220	43						
4219	44						
4218	45	(SP) - Sand, as above, dense, dry, at 46.5' becoming reddish brown to reddish orange, medium grained with trace fine grained quartz	PID = 0.0 ppm		CAN113 B314-1045	14	N = 80 Rec = 2.0'/2.0' Time: 0950
4217	46					30	
4216	47					50 50	
4215	48						
4214	49						
4213	50						

HTW DRILLING LOG

HOLE NO. 113-14

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. Dubois

SHEET 7 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4212		(SP) - Sand, trace Silt, dense, dry, light reddish tan, very fine to fine grained, trace medium grained, slight calcareous, 30.4-50.6' silt, white to buff, very dense, dry, well cemented, very calcareous	PID = 0.0 ppm			48 100 +	N = 100 + Rec = 0.6'/0.9'
	51						Split spoon refusal at 50.9'
4211							
	52						
4210							
	53						
4209							
	54						
4208							
	55		PID = 0.0 ppm			87 100 +	N = 100 + Rec = 0.0'/0.8'
4207							
	56						Split spoon refusal at 55.9' No sample recovery
4206							
	57				CAN113 B314 1057	150 +	N = 150 + Rec = 0.3'/0.4' Time: 1110
4205							Split spoon refusal at 57.4'
	58						
4204							
	59						

HTW DRILLING LOG

HOLE NO. 113-14

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. Dubois

SHEET 8 OF 9 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4203							
	60	(SP) - Sand, trace Silt, dense, dry, very fine to medium grained, poorly sorted, very well cemented, very calcareous	PID = 0.0 ppm			200 +	N = 200 + Rec = 0.5'/0.5' Time: 1057
4202							Split spoon Refusal at 60.5' Recovered 6", composite soil with sample from 57-57.4'
	61						
4201							
	62						
4200							
	63						
4199							
	64						
4198							
	65						
4197							
	66						
4196							
	67	(SP) - Sand, trace Silt, very dense, dry, buff to light reddish tan, very fine to fine grained, trace medium grained, well cemented, calcareous	PID = 0.0 ppm	CAN113 B314-4067	CAN113 B314-1067	20	N = 147 Rec = 1.5'/1.5' Time: 1137
4195						47	
	68						

HTW DRILLING LOG

HOLE NO.	113-14
SHEET 9 OF 9 SHEETS	

PROJECT	INSPECTOR
Landfill No. 5 Phase 1 RFI	Jeanette B. Dubois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						100+	
4194		TD = 68.5′					Split spoon refusal at 68.5′
	69						Stopped drilling at 68.5′ at 1137 on 7/28/95
4193							Grout borehole with bentonite-portland cement mixture: 1 bag
	70						bentonite, 10 bags portland cement
4192							from 1201 to 1230
	71						
4191							
	72						
4190							
	73						
4189							
	74						
4188							
	75						
4187							
	76						
4186							
	77						

HTW DRILLING LOG

HOLE NO.	113-15
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 7 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 1/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 3" O.D. Calif split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N800, E1700
9. SURFACE ELEVATION	4263.4
10. DATE STARTED	07/29/95
11. DATE COMPLETED	07/30/95
12. OVERBURDEN THICKNESS	55.8'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	55.8'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4263		FILL (SM) - Sand, some Silt, medium dense, dry, light brown to reddish brown, predominantly fine to medium grained, caliche/calcareous blebs throughout, clasts of dark reddish brown sand in part, rootlets in upper 8", first trash (minimal) at ~2.5' (piece plastic bag)	PID = 0.0 ppm				Start drilling at 0944 on 7/29/95
	1						Core run 1, 0-4' Rec = 3.9'/4.0' PID results reported above background
4262							
	2						
4261							
	3						
4260							
	4	FILL (SP) - Sand, trace Silt, medium dense, dry, fine to medium grained, some caliche, trash includes plastic, cardboard, styrofoam					Core run 2, 4-9' Rec = 2.9'/5.0'
4259							
	5						

HTW DRILLING LOG

HOLE NO. 113-15

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4258							
	6		PID = 0.0 ppm				
4257							
	7						
4256		Trash includes glass, cloth, plastic, mixed with some silt, some sand, medium dense, wet, no odor, becoming sandy,at 9', no discoloration	PID = 0.0 ppm				
	8						
4255							
	9	Trash includes plastic, cardboard, newspaper, wet, no soil in little recovery, no odor					Core run 3, 9-14' Rec = 0.8'/5.0'
4254							
	10						
4253							
	11						
4252							
	12						
4251							
	13		PID = 0.0 ppm				
4250							
	14						

HTW DRILLING LOG

HOLE NO. 113-15

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4249		FILL - Sand, trace Silt and Clay, dense, moist, red-brown, fine to medium grained, trash in top 1' (14-15'), trace calcareous blebs, includes plastic, aluminum can, paper	PID = 6.0 ppm				Core run 4, 14-19' Rec = 5.0'/5.0'
	15						
4248		(SP) - Sand, trace Silt, medium dense, damp, medium reddish brown to reddish orange, no trash (to 16.5')	PID = 0.0 ppm				Base of cell at 15'
	16						
4247							
		(SM) - Sand, little Silt, medium dense, dry, light red-brown to light orange tan, fine grained, some medium grained, very calcareous, no trash, some mottling	PID = 0.0 ppm				
	17						
4246							
	18						
4245							
	19	Sand, as above	PID = 0.0 ppm				
4244							
	20	(SP) - Sand, trace Silt, very dense, dry, tan to pinkish tan, fine to medium grained, subrounded, very calcareous, slightly mottled	PID = 0.0 ppm		CAN113 B315-1020	25	N = 90 Rec = 2.0'/2.0' Time: 1055
4243						40	
	21						
4242						50	
						60	
	22						
4241							
	23						

HTW DRILLING LOG

HOLE NO. 113-15

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4240							
	24						
4239							
	25	(SP) - Sand, trace Silt, very dense, dry, light pinkish tan, very fine to fine grained, trace medium grained, very calcareous, moderately cemented	PID = 0.0 ppm		CAN113 B315-1025	48	N = 122 Rec = 1.8'/2.0' Time: 1119
4238						72	
	26						
4237		(SP) - Sand, trace Silt, medium dense to dense, dry, reddish orange, medium grained, trace coarse grained				50	
						35	
	27						
4236							
	28						
4235							
	29						
4234							
	30		PID = 0.0 ppm			8	N = 19 Rec = 0.8'/2.0'
4233						9	
	31						
4232		(SM) - Sand, very Silty in upper 6" becoming less (trace Silt) at 31.7', buff to light reddish orange, predominantly fine to medium grained, trace				10	
						18	
	32						

HTW DRILLING LOG

HOLE NO. 113-15

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4231		coarse, subangular to subrounded, caliche nodules near 32'					
	33						
4230							
	34						
4229							
	35	(SP) - Sand, trace Silt, very dense, dry, light pinkish tan, very fine to fine grained, very calcareous	PID = 0.0 ppm		CAN113 B315-1035	83 100+	N = 100+ Rec = 0.7'/0.7' Time: 1144
4228							
	36						Split spoon refusal at 35.8'
4227							
	37						
4226							
	38						
4225							
	39						
4224							
	40	(SM) - Sand, some Silt, dense to very dense, light reddish brown, fine grained becoming medium grained near 40.6', slightly mottled, very calcareous, subangular to subrounded	PID = 0.0 ppm			45 100+	N = 100+ Rec = 0.8'/0.9'
4223							
	41						

HTW DRILLING LOG

PROJECT	INSPECTOR	HOLE NO.
Landfill No. 5 Phase 1 RFI	Jeanette B. DuBois	113-15
		SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Split spoon refusal at 40.9'
4222							
	42						
4221							
	43						
4220							
	44						
4219							
	45	(SP) - Sand, trace Silt, very dense, dry, light reddish tan, medium grained, trace coarse grained, subrounded to rounded, well sorted, poorly cemented	PID = 0.0 ppm		CAN113 B315-1045	27	N = 111 Rec = 1.8'/1.8' Time: 1224
4218						30	
	46						
4217						81	
						100+	
	47						Split spoon refusal at 46.8'
4216							
	48						
4215							
	49						
4214							
	50						

HTW DRILLING LOG

HOLE NO. 113-15

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4213			PID = 0.0 ppm			31	N = 100 + Rec = 0.8'/1.4'
	51	(SP) - Sand, as above, very dense, dry, becoming moderately well cemented at 51'				52	
						100 +	
4212							Split spoon refusal at 51.4'
	52						
4211							
	53						
4210							
	54						
4209							
	55	(SM) - Sand, little Silt, very dense, dry, buff to light reddish tan, fine to medium grained, trace very fine grained, very calcareous, moderately well cemented, near 55-55.3'	PID = 0.0 ppm		CAN113 B315-1055	100	Time: 1306
4208						100 +	
	56	TD = 55.8'					Split spoon refusal at 55.8'
4207							Stopped drilling at 55.8' on 7/29/95 at 1259
	57						7/30/95 grouted borehole with cement-bentonite mixture from 55.8' To surface, grout mixture: 3/4 bag bentonite, 8 bags portland cement, grouted from 0640 to 0712
4206							
	58						
4205							
	59						

HTW DRILLING LOG

HOLE NO.	113-16
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 10 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3-1/4" I.D. HSA, 5" CME Core Barrel w/ polybutyrate liners, 2-1/2" I.D. CA. split spoon w/ S.S. liners 1" I.D. split spoon
8. HOLE LOCATION	N1500, E1500
9. SURFACE ELEVATION	4262.7
10. DATE STARTED	07/26/95
11. DATE COMPLETED	07/26/95
12. OVERBURDEN THICKNESS	81.5
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	81.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	1	0	2	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL - Sandy Silt, dry, brown, calcareous	PID = 0.0 ppm		CAN113B316-1000		PID readings are recorded as above background
4262	1	FILL (SM) - Silty Sand, dry, brown with white, red, tan spots (mottled), fine grained, calcareous					Core run 1, 0-4.5' Rec=4.0'/4.5' Time: 0750
4261			PID = 0.0 ppm				
	2	A little asphalt seen at 2' depth (19% volume) No other trash					
4260							
	3						
4259							
	4						
4258							Core run 2, 4.5-9.5' Rec=3.0'/5.0'
	5						

HTW DRILLING LOG

HOLE NO. 113-16

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 2 OF 10 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4257	6	FILL (CL) - Sandy Clay with Silt, slightly moist, dark brown w/ red, tan, white spots, calcareous, occ. caliche nodules, up to 1", white Trash in lower 1', paper, plastic (unburned) (20% volume)	PID = 0.1 ppm				
4256	7						
4255	8						
4254	9						
4253	10	FILL (CL) - Sandy Clay with Silt, moist, brown, calcareous, with trash, paper, plastic, metal (unburned) (50% volume)	PID = 1.3 ppm				Core run 3, 9.5-14.5' Rec = 1.0'/5.0'
4252	11						
4251	12						
4250	13						
4249	14						

HTW DRILLING LOG

HOLE NO. 113-16

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 3 OF 10 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4248	15	FILL (CL) - Silty Clay with Sand, moist, grey-brown, calcareous Trash, plastic, paper, wood (unburned) (20% volume)	PID = NR				Core run 4, 14.5-19' Rec=0.0'/5.0'
4247	16						
4246	17						
4245	18	FILL (SM) - Silty Sand, dry, light pink-brown, fine-grained, calcareous, occasional caliche nodules					
4244	19						Core run 5, 19-24' Rec=4.0'/5.0'
4243	20	FILL (SM) - Silty Sand, slightly moist, orange-brown, fine-grained, calcareous	PID = 0.0 ppm				
4242	21						
4241	22	FILL (CL) - Silty Clay with Sand, moist, gray-brown, stained with grey material	PID = 1.0 ppm				
4240	23						

HTW DRILLING LOG

HOLE NO. 113-16

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 4 OF 10 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4239		Caliche, white					
	24	FILL (SM) - Silty Sand, dense, dry, pinkish-tan, fine-grained, calcareous, partially cemented to caliche	PID = 0.5 ppm			25	N=63 Rec=1.6'/2.0'
4238						41	
	25					22	
4237						35	
	26						
4236							
	27						
4235							
	28						
4234							
	29						
4233							
	30	FILL (SM) - Silty Sand, dry, white patches, medium dense, fine-grained, plastic in upper liner, garbage odor	PID = 0.0 ppm			10	N=33 Rec=1.6'/2.0'
4232						14	
	31					19	
4231						22	
	32						

HTW DRILLING LOG

HOLE NO. 113-16

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 5 OF 10 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4230	33	FILL (SM) - Silty Sand, dry, light orange-brown to tan-white, fine-grained, calcareous Strong garbage odor, plastic, metal, glass (59% volume)	PID = 0.0 ppm				(Resume coring) Core run 6, 32-34' Rec=2.0'/2.0'
4229	34	FILL (SM) - Silty Sand, slightly Clayey, slightly moist, light orange-brown, plastic (1% volume), strong garbage odor	PID = 0.0 ppm				Core run 7, 34-39' Rec=3.5'/5.0'
4228	35						
4227	36						
4226	37						
4225	38						
4224	39	FILL (SM) - Sand, fine-grained, as above; a few flakes of plastic, strong garbage odor	PID =NR				Core run 8, 39-40' Rec=1.0'/1.0'
4223	40	Caliche, dry, very hard, pink-tan, composed of fine-medium grained sand, strongly cemented, slight garbage odor					Base of cell at 40' Rec=0.3'/0.5'
4222	41						

HTW DRILLING LOG

HOLE NO.	113-16
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	David K Nicholson
SHEET 6 OF 10 SHEETS	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4221	42						
4220	43						
4219	44						
4218	45	(SM) Silty Sand, dense, dry, light orange-brown, fine-grained, calcareous, slight garbage odor	PID = 0.0 ppm		CAN113 B316-1045 CAN113 B316-0566 (DUPE)	18	N=79 Rec=1.9'/1.9' Time: 1310
4217	46					38	
4216						41 100+	
4215	47						Split spoon refusal at 46.9'
4214	48						
4213	49						
	50						

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-16

HTW DRILLING LOG

HOLE NO. 113-16

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 7 OF 10 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4212		(SM) - Silty Sand, very dense, dry, light orange-brown, with a few caliche nodules, white, up to 1/2" diam., very slight garbage odor	PID = 0.0 ppm		CAN113 B316-1050	48 100+	N=100+ Rec=0.9'/0.9' Time: 1328
	51						Split spoon refusal at 50.9'
4211							
	52						
4210							
	53						
4209							
	54						
4208							
	55	(SM) - Silty Sand, Slightly Clayey, dense, dry, orange-brown, fine to medium grained, medium grains are predominantly quartz, calcareous, very slight garbage odor	PID = 0.0 ppm			14 37 46 69	N=83 Rec=2.0'/2.0'
4207							
	56						
4206							
	57						
4205							
	58						
4204							
	59						

HTW DRILLING LOG

HOLE NO. 113-16

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 8 OF 10 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4203							
	60	(SM) - Silty Sand, dry, light orange-brown, fine to medium grained, medium quartz, calcareous, very slight garbage odor	PID = 0.0 ppm		CAN113 B316 1060	32	N=100+ Rec=0.9'/0.9' Time: 1400
4202						100+	
	61						Split spoon refusal at 60.9'
4201							
	62						
4200							
	63						
4199							
	64						
4198							
	65	(SM) - Silty Sand, very dense, dry, light pink-brown, fine grained, calcareous, with occasional caliche nodules up to 1/4" diam., tan-white, very slight odor	PID = 0.0 ppm			100+	N=100+ Rec=0.3'/0.5'
4197							Split spoon refusal at 65.5'
	66						
4196							
	67						
4195							
	68						

HTW DRILLING LOG

HOLE NO. 113-16

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 9 OF 10 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4194	69						
4193	70	(SM) - Silty Sand, slightly Clayey, dry, light orange-brown, calcareous with occasional caliche nodules, very slight garbage odor	PID = 0.0 ppm		CAN113 B318-1070	52 100+	N=100+ Rec=0.5'/0.8' Time: 1600
4192	71						Split spoon refusal at 70.8'
4191	72						
4190	73						
4189	74						
4188	75	(SM) - Silty Sand, very dense, dry, light orange-brown to red-brown, fine grained	PID = 0.0 ppm			45 100+	N=100+ Rec=0.9'/0.9' No odor
4187	76						Split spoon refusal at 75.9'
4186	77						

HTW DRILLING LOG

HOLE NO. 113-16

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 10 OF 10 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4185	78						
4184	79						
4183	80	Silty Sand with Clay, very dense, slightly moist, orange, fine-grained, calcareous	PID = 0.0 ppm		CAN113 B316-1080	20	N=199+ Rec=1.5'/1.5' Time: 1655
4182	81					99	
						100+	
4181	82	TD=81.5'					Split spoon refusal at 81.5'
4180	83						Borehole grouted to surface w/ cement/bentonite grout 15 bags cement 1 bag bentonite
4179	84						
4178	85						
4177	86						

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-16

HTW DRILLING LOG

HOLE NO.	113-17
SHEET 1 OF 7 SHEETS	

1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 3" O.D. split spoon w/ s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N 1250, E 1650
9. SURFACE ELEVATION	
10. DATE STARTED	07/26/95
11. DATE COMPLETED	07/26/95
12. OVERBURDEN THICKNESS	55'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	55.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	N/A	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	1	2	2	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
abandonded	grouted			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
			PID results reported above background				Start drilling at 0807 on 7/25/95
							Core run 1, 0-4' Rec=3.1'/4.0'
	1	FILL (ML) - Silt with trace Clay and Sand, medium dense, dry, light brown, trace gravel at surface, rootlets (0.9-1.5')	PID=0.0 ppm				
	2	FILL (SP) - Sand, trace Silt, medium dense, dry, light pinkish tan to medium reddish brown,very fine to fine grained, caliche nodules present throughout, trace reddish brown sand clasts in upper interval (to 3'), trash includes asphalt, plastic bags, wood pieces about 2-3" length					
	3						
	4						Core run 2, 4-9' Rec=1.5'/5.0'
	5						

HTW DRILLING LOG

HOLE NO. 113-17

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	6						No recovery from 4-7.5' Poor recovery due to split barrel pushing wood and metal ahead of auger - piece of "tin" carried upon auger flights
	7						
	8	FILL (SP) - Sand, trace to little Silt, loose to medium dense, dry, light pinkish tan, very fine grained, trace fine grained, rare caliche nodules, trace rootlets (slough), trash minimal, piece of plastic bag, few small wood pieces	PID = 0.0 ppm				
	9						Core run 3, 9-14' Rec = 1.8'/5.0'
	10						
	11						
	12	FILL - Sand, as above, trace caliche nodules, no rootlets, trash minimal (plastic bags, wood) found in upper 6" (12.2-12.8')	PID = 4.0 ppm				
	13						Base of cell at 13'
	14						

HTW DRILLING LOG

HOLE NO. 113-17

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Rec = 1.8'/5.0'
	15						
	16						
	17		PID = 0.0 ppm				
		(SP) - Sand, as above, becoming fine grained with little medium grained, no trash					
	18						
	19	(SP) - Sand, as above, very dense, becoming well cemented, calcareous in lower 5" (20.0-21.3'), no trash	PID = 0.0 ppm		CAN113-8317-1019 CAN113-8317-0507 (NRD)	40 100 100 +	N = 200 + Rec = 1.3'/1.3' Time: 0903
	20						
							Split spoon refusal at 20.3'
	21						
							* Pulled augers out of hole to check bit, worked hole with augers may have dropped slough to bottom of hole from above trash zone Tried to clear out before sample at 25-27'
	22						
	23						

HTW DRILLING LOG

HOLE NO.	113-17
SHEET 4 OF 7 SHEETS	

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	24						
	25	(SP) - Sand, trace Silt, very dense, dry, light pinkish tan to light red, very fine to fine grained, trace medium grained, subrounded, a few pieces of trash sloughed into hole when augers were pulled out of hole	PID = 3.0 ppm interval 25.5-26' odor(not chemical)		CAN113-B317-1025 CAN113-B317-0508	10	N = 150 Rec = 1.4'/1.4' Time: 1002
	26					50	
						100 +	
							Split spoon refusal at 26.5'
	27						
	28						
	29						
	30	(SP) - Sand, as above, very dense, becoming very well cemented, calcareous, caliche nodules, rare at 31.5'	PID = 0.0 ppm		no sample taken	18	N = 150 + Rec = 0.7'/0.8'
	31					50	
						100 +	
							Split spoon refusal at 31.5'
	32						

HTW DRILLING LOG

HOLE NO. 113-17

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	33						
	34						
	35	(SM) - Slightly Silty Sand, very dense, light reddish orange to light pink, very fine grained, very calcareous at top, becoming clast - filled matrix, clasts of red-orange, fine to medium grained, subrounded, quartz	PID = 0.0 ppm		CAN113-B317-1035	38 75 100+	N = 175+ Rec = 1.1'/1.3' Time: 1040
	36						
	37	Sand, as above, very well cemented calcareous to 40' (based on driller note and cuttings)					Split spoon refusal at 36.3'
	38						
	39						
	40	(SM) - Slightly Silty Sand, very dense, light pink, very fine to fine grained, very well cemented, calcareous in top 6" becoming mottled with reddish orange sand, fine grained with trace	PID = 0.1 ppm		no sample taken	40 77	N = 131 Rec = 1.2'/2.0'
	41						

HTW DRILLING LOG

HOLE NO. 113-17

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		medium grains				54	
						50	
	42						
	43						
	44						
	45	(SP) - Sand, trace Silt, very dense, dry, light reddish orange, fine grained with trace medium grained, subrounded to rounded, slight calcareous, poorly cemented	PID = 0.0 ppm	CAN113-B317-4045	CAN113-B317-1045	18	N = 86 Rec = 0.0'/2.0' Time: 1139 Drive spoon with sand catcher from 45-46.9', VOA liner disturbed
						28	
	46					58	
						100+	
	47						Split spoon refusal at 46.9'
	48						
	49						
	50						

HTW DRILLING LOG

HOLE NO. 113-17

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		(SM) - Silty Sand, very dense, dry, light pink-tan, very fine to fine grained, trace medium grained, poorly cemented	PID = 0.0 ppm		no sample taken	38 100+	N = 100+ Rec = 0.7'/1.0'
	51						Split spoon refusal at 51.0'
	52						
	53	(SP) - Sand, trace Silt, dense, light pink grading to reddish orange at 54', fine grained becoming medium grained at 54-55', calcareous in upper part, poorly cemented	PID = 0.0 ppm		CAN113-8317-1053	18 29 31 50	N = 60 Rec = 1.6'/2.0' Time: 1211
	54						
	55	TD = 55'					Grout borehole from surface to total depth of 55' Grout mixture, 1 bag bentonite (50 lb), 9 bags portland cement (100 lb)
	56						
	57						
	58						
	59						

HTW DRILLING LOG

HOLE NO.	113-18
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 8 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dave Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w/polybutyrate liners & 3" O.D. Calif. split spoon w/s.s. liners 1" I.D. split spoon
8. HOLE LOCATION	N1500, E1625
9. SURFACE ELEVATION	4264.5
10. DATE STARTED	07/26/95
11. DATE COMPLETED	07/27/95
12. OVERBURDEN THICKNESS	63.8
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	63.8'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264		FILL (SM) - Silty Sand, medium dense, dry, light pinkish tan, trace rootlets in upper 6", very fine grained, some fine grained, trace medium grained, trash in shoe including plastic bag, rare caliche nodules throughout	PID results reported as above background PID = 0.0 ppm				Core run 1, 0-4' Rec = 3.3'/4.0'
	1						1
4263							
	2						2
4262							
	3						3
4261							
	4	FILL (SP) - Sand, trace Silt and Clay, medium dense, dry, light pink-tan, very fine grained, some fine grained, with rare pieces of plastic strapping fiber	PID = 0.0 ppm				Core run 2, 4-9' Rec = 4.9'/5.0'
4260							
	5						5

HTW DRILLING LOG

HOLE NO. 113-18

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4259		FILL (SP) - Sand, trace Silt, medium dense, dry, dark red-brown, fine to medium grained, odor light, caliche nodules present	PID = 0.0 ppm				
	6						
4258							
	7	FILL - Trash present; plastic, paper, possibly asphalt, possibly ash/charcoal debris, aluminum can, slight odor and in lower 6" (8.5-9') discoloration of sand	PID = 7.0 ppm				
4257							
	8						
4256							
	9						Core run 3, 9-14' Rec = 2.8'/5.0'
4255							
	10						
4254							
	11						
4253		FILL - Predominantly trash to 12', paper, plastic, aluminum, carbon paper	PID = 10.0 ppm				
	12						
4252		Fill (SP) - Sand, trace Silt, damp, dark red-brown, slight odor, possible discoloration, medium grained, some fine grained to12.6', trash, paper, foam material, cardboard, aluminum can, plastic, mixed with little soil, dry, medium brown, fine grained, with clasts of red-brown medium grained sand, some caliche					
	13						
4251							
	14						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET 3 OF 8 SHEETS
113-18	Landfill No. 5 Phase 1 RFI	Jeanette B. DuBois	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Core run 4, 14-19' Rec=3.0'/5.0'
4250							
	15						
4249							
	16	Predominantly trash debris including plastic, aluminum pop cans, insulation material, leaves, cardboard, plastic bags, rubber, newspaper, twigs, carbon paper, mixed in with very little fill consisting of sandy silt, medium dense, dry, dark brown, some caliche	PID=5.0 ppm				
4248							
	17						
4247							
	18						
4246							
	19						Core run 5, 19-24' Rec=2.5'/5.0'
4245							
	20						
4244							
	21						
4243		FILL - Trash from 21.5-22', string, paper, cardboard	PID=7.0 ppm				
	22	FILL (SP) - Sand, trace Silt, medium dense, dry, reddish orange, fine to medium grained, subrounded to rounded, poorly cemented, metal and paper rare throughout					
4242							
	23						

HTW DRILLING LOG

HOLE NO. 113-18

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4241		(SM) - Silty Sand, medium dense, dry, light pinkish orange, fine grained, moderately well cemented, calcareous, no trash from 23-24'	PID = 0.0 ppm				Base of cell at 23'
	24						Core run 6, 24-28' Rec = 3.0'/4.0'
4240							
	25	(SP) - Silty Sand, medium dense, dry, reddish orange, predominantly medium grained with trace fine grained, subrounded to rounded, poorly cemented, slightly calcareous	PID = 0.0 ppm				
4239							
	26						
4238							
	27						
4237							
	28	Sand, as above, very dense, becoming predominantly fine grained, with trace medium grained, calcareous cemented interval at approximately 29-29.5'	PID = 0.0 ppm		CAN113 B318-1028	29	N = 140 Rec = Time: 1642
4236						72	
	29					68	
4235						100+	
	30						Split Spoon Refusal at 29.9'
4234							
	31						
4233							
	32						

HTW DRILLING LOG

HOLE NO. 113-18

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232							
	33	(SP) - Sand, trace Silt, medium dense, dry to damp, light pink to reddish orange, fine to medium grained, subrounded to rounded, moderately to poorly cemented	PID = 0.3 ppm		CAN113 B318-1033	10	N = 30 Rec = 2.0'/2.0' Time: 1656
4231						12	
	34					18	
4230						18	
	35	Sand, as above, (cuttings)					
4229							
	36						
4228							
	37						
4227							
	38						
4226							
	39						
4225							
	40	(SP) - Sand, trace Silt, very dense, dry, light reddish brown, predominantly fine grained, trace medium grained, moderately well cemented, very calcareous from 40.4-40.8'	PID = 0.0 ppm			38	N = 100+ Rec = 0.8'/0.8' Split spoon refusal at 40.8'
4224						100+	
	41						

HTW DRILLING LOG

HOLE NO. 113-18

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4223							
	42	Driller noted "hard zone" to 42' in the caliche or well cemented (calcareous) sand above, approximately 1.6' thick					
4222							
	43						
4221							
	44						
4220							
	45	(SM) - Silty Sand, medium dense, slightly damp from 45.5-47', pinkish orange in top 6", becoming reddish orange, predominantly fine grained, trace medium grain, moderately calcareous in top 6", slightly calcareous	PID = 0.0 ppm		CAN113 B318-1045	11	N = 48 Rec = 2.0'/2.0' Time: 0738
4219							
	46					20	
4218						28	
	47					28	
4217							
	48						
4216							
	49						
4215							
	50						

HTW DRILLING LOG

HOLE NO. 113-18

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4214		(SM) - Sand, trace to little Silt, very dense, dry, reddish orange, predominately fine grained with some medium grained quartz in upper 1', slightly calcareous	PID = 0.0 ppm			13	N = 55 Rec = 1.7'/2.0'
	51					24	
4213						31	
						34	
	52						
4212							
	53						
4211							
	54						
4210							
	55	Sand, as above from 55.9-56.5', Silty Sand from 55-55.9', very dense, dry, light pink, predominantly very fine grained, trace of fine grained, trace of fine and medium grained quartz, calcareous, increasing near 56'	PID = 0.0 ppm		CAN113 B318-1055	32	N = 181 + Rec = 1.4'/1.4' Time: 0820
4209						81	
	56					100 +	
4208							Split spoon refusal at 56.4'
	57						
4207							
	58						
4206							
	59						

HTW DRILLING LOG

HOLE NO. 113-18

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4205							
	60	(SP) - Sand, trace Silt, very dense, dry, light reddish brown, predominantly very fine to fine grained, some medium grained, poorly sorted, poorly cemented	PID = 0.0 ppm			100 +	N = 100 + Rec = 0.4'/0.4'
4204							Split spoon refusal at 60.4'
	61						
4203							
	62						
4202							
	63		PID = 0.0 ppm		CAN113 B318-1063	100 / 100 +	N = 100 + Rec = 0.8'/0.8' Time: 0903
4201							
	64	TD = 63.8'					Split spoon refusal at 63.8'
4200							Grout borehole from 63.8' to surface Grout mixture: 3/4 bags (50 lb) bentonite, 9 bags (100 lb) portland cement
	65						
4199							
	66						
4198							
	67						
4197							
	68						

HTW DRILLING LOG

HOLE NO.	113-19
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET	1 OF 7 SHEETS
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 3" O.D. Calif split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N1850, E1600
9. SURFACE ELEVATION	4265.3
10. DATE STARTED	07/27/95
11. DATE COMPLETED	07/27/95
12. OVERBURDEN THICKNESS	56.5
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	56.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4265		FILL (ML) - Silt, trace Sand, medium stiff, medium brown, dry, grading to sand, reddish brown, medium dense, dry, very fine to fine grained, trace medium grained, calcareous from 3.6-4', trash at 3.5', plastic bag material	PID results reported above background		CAN113 B319-1000		Took surface soil sample from 0-0.5', at 1054 on 7/27/95 Start drilling at 1215 on 7/27/95
	1						Core run 1, 0-4' Rec = 1.5'/4.0' Time: 1054
4264							
	2						
4263			PID = 0.0 ppm				
	3						
4262							
	4						Core run 2, 4-9' Rec = 2.0'/5.0'
4261							
	5						

HTW DRILLING LOG

HOLE NO. 113-19

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4260							
	6						
4259							
	7	FILL (SM) - Sand, medium dense, dry, light to medium brown to reddish brown, odor, trash throughout interval interlayered with sand fill, very fine to fine grained, some reddish orange clasts (sand, medium grained) in last 8", trash includes paper, plastic bag, aluminum can, wire and glass, no trash in last 3"	PID = 3.0 ppm				
4258							
	8						
4257							
	9	FILL - Sand as above, trash includes fiberglass, aluminum can, plastic, calcareous in upper 6-7"	PID = 0.0 ppm				Core run 3, 9-14' Rec = 1.6'/5.0'
4256							Driller note: may have hit base at 12-13', shoe jammed, interval logged 9-10.6'
	10						
4255		FILL -Sand, trace Silt, dense, dry, reddish orange, medium grained, some fine grained, some fiberglass					
	11						
4254							
	12						
4253							
	13						Base of cell at 12.5
4252							From driller (no recovery at contact)
	14						

HTW DRILLING LOG

HOLE NO. 113-19

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4251		(SP) - Sand, trace Silt, dense, dry, light reddish tan, fine grained, slight calcareous, no trash	PID = 0.0 ppm				Core run 4, 14-18' Rec = 4.0'/4.0'
	15						
4250							
	16						
4249							
	17						
4248		Sand becoming reddish orange, medium grained, with some fine grained quartz, no trash					
	18	(SP) - Sand, trace Silt, dense, dry, reddish orange, predominantly medium grained, some fine grained, caliche nodules from 19-20', no trash	PID = 0.0 ppm		CAN113 B319-1018	15	N = 55 Rec = 2.0'/2.0' Time: 1315
4247						25	
	19					30	
4246						40	
	20						
4245							
	21						
4244							
	22						
4243							
	23						

HTW DRILLING LOG

HOLE NO. 113-19

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4242							
	24						
4241							
	25	(SP) - Sand, trace Silt, dense, dry to slightly damp, dark reddish brown to reddish brown, fine to medium grained, some very fine grained, trace calcareous stringers in upper 8"	PID = 0.0 ppm		CAN113-B319-1025		N = 54 Rec = 2.0'/2.0' Time: 1340
4240						17	
						23	
	26						
4239						31	
						40	
	27						
4238							
	28						
4237							
	29						
4236							
	30	(SP) - Sand, as above, medium dense, dry, rare calcareoous/caliche nodules	PID = 0.0 ppm				N = 20 Rec = 1.2'/2.0'
4235						9	
						10	
	31						
4234						10	
						10	
	32						

HTW DRILLING LOG

HOLE NO. 113-19

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4233							
	33						
4232							
	34						
4231							
	35	(SP) - Sand, trace Silt, very dense, dry, buff to light pink, very fine grained to fine grained, well cemented, calcareous	PID = 0.0 ppm		CAN113 B319-1036	54 100+	N = 100+ Rec = 0.9'/0.9' Time: 1411
4230							
	36						Split spoon refusal at 35.9'
4229							
	37						
4228							
	38						
4227							
	39						
4226							
	40	(SP) - Sand, trace Silt, very dense, dry, buff to light reddish brown, fine grained quartz grading to medium grained at 41.7', trace calcareous blebs	PID = 0.0 ppm			17 23	N = 54 Rec = 0.8'/2.0'
4225							
	41						

/CORPS-B/12-01-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-19

HTW DRILLING LOG

HOLE NO. 113-19

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4224						31	
						50	
	42						
4223							
	43						
4222							
	44						
4221							
	45	(SP) - Sand, as above, dense, predominantly fine grained, rare calcareous stingers	PID = 0.0 ppm		CAN113 B319-1045	12	N = 54 Rec = 2.0'/2.0' Time: 1446
4220						24	
	46						
4219						30	
						50	
	47						
4218							
	48						
4217							
	49						
4216							
	50						

HTW DRILLING LOG

HOLE NO. 113-19

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4215		(SM) - Silty Sand, medium dense, dry, buff to light reddish brown, predominantly fine to medium grained, trace very fine grained	PID = 0.0 ppm			12	N = 41 Rec = 2.0'/2.0'
						18	
	51						51
4214						23	
						24	
	52						52
4213							
	53						53
4212		Sand, as above	PID = 0.0 ppm		CAN113 B319-1053	100 +	N = 100 + Rec = 0.1'/0.1' Time: 1528
						100 +	
	54						54
4211							auger to 55' to get beyond hard refusal zone
	55						55
4210		(SP) - Sand, trace Silt, very dense, dry to damp, buff to light reddish tan, fine grained to medium grained, slightly calcareous	PID = 0.0 ppm			23	sample composited from 53-53.5' and 55-56.5' N = 134 + Rec = 1.5'/1.5'
						34	
	56						56
4209						100 +	
		TD = 56.5'					Stopped drilling at 1526 on 7/27/95 Grout borehole with cement and bentonite from total depth to surface, grout mixture: 3/4 bag bentonite, 8 bags portland cement, placed wood stake next to grouted borehole
	57						57
4208							
	58						58
4207							
	59						59

HTW DRILLING LOG

HOLE NO.	113-20
SHEET 1 OF 7 SHEETS	
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Enviromental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME 75, 3-1/4" I.D.; HSA, 5' CME Core Barrel; w/ ploybutyrate liners; and 2-1/2" I.D. CA. split spoon w/ s.s. liners
8. HOLE LOCATION	N1650, E1410
9. SURFACE ELEVATION	4263.2
10. DATE STARTED	07/27/95
11. DATE COMPLETED	07/27/95
12. OVERBURDEN THICKNESS	53'
13. DEPTH DRILLED INTO ROCK	0
14. TOTAL DEPTH OF HOLE	53.0'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	0	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4263		FILL (SM) - Silty Sand, dry, tan-white to light brown, w/ white and red-brown patches, calcareous, 1 piece of window glass (plate) seen, no burning	PID = 0.0 ppm				Core run 1, 0-4' Rec=4.0'/4.0' PID readings recorded as above background
	1						1
4262							
	2						2
4261							
	3						3
4260							
	4	FILL (SM) - Silty Sand, dry, light pink-brown to reddish-brown w/ white patches, fine-grained, calcareous	PID = 0.0 ppm				Core run 2, 4-9' Rec=3.5'/5.0'
4259							4
	5						5

HTW DRILLING LOG

HOLE NO. 113-20

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4258		Trash - plastic, string, burned wood fragments, (20% volume)	PID = 0.0 ppm				
4257	6						
4256	7						
4255	8						
4254	9	FILL (SM) - Clayey Sand with Silt, slightly moist, orange-brown, with occasional caliche nodules up to 1/4", white Fill (SM) - Silty Sand, with Clay, dry, pink-brown to reddish brown with white spots, calcareous, 1 piece of metal, a little plastic, some wood fragments	PID = 0.0 ppm PID = 0.0 ppm				Core run 3, 9-14' Rec=3.5'/5.0
4253	10						
4252	11						
4251	12	(SM) - Silty Sand with Clay, slightly moist, orange-brown	PID = 0.0 ppm				Base of cell at 11.5'
4250	13						
	14						

HTW DRILLING LOG

HOLE NO. 113-20

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4249		(SM) - Slightly Clayey Sand with Silt, dense, slightly moist, orange-brown with white patches, calcareous, fine grained, occasional medium quartz grains	PID = 0.0 ppm			12 22 32 58	N=54 Rec=2.0'/2.0'
4248	15						
4247	16	(SM) - Silty Sand, slightly Clayey, very dense, orange-red, fine to medium grained, some quartz grains	PID = 0.0 ppm		CAN113 B320-1016	39 64 100	N=164+ Rec=1.5'/1.5' Time: 0858
4246	17						
4245	18						Split spoon refusal at 17.5'
4244	19						
4243	20	(SM) - Silty Sand, slightly Clayey, very dense, dry, white, calcareous, with abundant caliche nodules up to 1" diam.	PID = 0.0 ppm		CAN113 B320-1020	17 38 63 64	N=101 Rec=1.8'/2.0' Time: 0920
4242	21						
4241	22						
	23						

HTW DRILLING LOG

HOLE NO. 113-20

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4240							
4239	24						
4238	25	(SM) - Silty Sand, with Clay, very dense, dry, light orange-brown to red-brown to white, fine grained, calcareous, partially cemented to caliche, abundant quartz grains	PID = 0.0 ppm			57 100+	N=100+ Rec=1.8'/2.0'
4237	26						
4236	27						
4235	28						
4234	29						
4233	30	(SM)- Silty Sand, slightly Clayey, dense, dry, orange-brown, fine grained, calcareous	PID = 0.0 ppm		CAN113 B320-1030	14 24 29 34	N=53 Rec=1.8'/2.0' Time: 0950
4232	31						
	32						

HTW DRILLING LOG

HOLE NO. 113-20

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4231							
4230	33						
4229	34						
4228	35	(SM) - Silty Sand, slightly Clayey, medium dense, dry, orange-brown with white streaks, calcareous, fine grained, occasional quartz grains, occasional caliche nodules up to 1" diam.	PID = 0.0 ppm			10	N=43 Rec=2.0'/2.0'
						21	
4227	36					22	
						24	
4226	37						
4225	38						
4224	39						
4223	40	(SM) - Silty Sand, dry, light orange-brown, fine grained, calcareous, with caliche nodules up to 2", tan-white	PID = 0.0 ppm		CAN113 B320-1040	25	N=148 Rec=1.8'/1.8' Time: 1025
						74	
	41						

HTW DRILLING LOG

HOLE NO. 113-20

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4222						74	
						100+	
4221	42						Split spoon refusal at 41.8'
4220	43						
4219	44						
4218	45	(SM) - Silty Sand, medium dense, dry, light orange-brown to white, fine grained, calcareous, with caliche nodules up to 1" diam.	PID = 0.0 ppm			13	N=43 Rec=2.0'/2.0'
						22	
4217	46					21	
						26	
4216	47						
4215	48						
4214	49						
	50						

HTW DRILLING LOG

HOLE NO. 113-20

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4213							
4212	51						
4211	52	(SM) - Silty Sand, very dense,dry, light orange-brown, fine grained, calcareous, caliche nodules to 1 1/2"	PID = 0.0 ppm		CAN113 B320-1052	26 88+	
4210	53	TD=53'					Split spoon refusal at 53.0' N=114 Rec=1.0'/1.0' Time: 1100
4209	54						
4208	55						Bore hole grouted to surface w/ cement/bentonite grout 9 bags of cement 1 bag of bentonite
4207	56						
4206	57						
4205	58						
	59						

HTW DRILLING LOG

HOLE NO.	113-21
SHEET 1 OF 8 SHEETS	
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 1/4" I.D.HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon w/ s.s. liners.
8. HOLE LOCATION	N700, E1550
9. SURFACE ELEVATION	4264.5
10. DATE STARTED	07/28/95
11. DATE COMPLETED	07/29/95
12. OVERBURDEN THICKNESS	58.8'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	58.8'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			David K Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4264	1	FILL (SM) - Silty Sand, with Clay, dry, tan to dark brown, with mottled white, red, red-brown, spots and streaks, fine grained, calcareous, no trash	PID = 0.0 ppm				PID readings are recorded as above background Core run 1, 0-4' Rec = 4.0'/4.0'
4263	2						
4262	3						
4261	4	FILL (CL) - Clay, Sandy with Silt, slightly moist, tan to dark brown, with tan, white, red-brown, spots and patches (mottled), occasional caliche nodules up to 1/2", calcareous	PID = 0.0 ppm				Core run 2, 4-9' Rec = 2.5'/5.0'
4260	5						

HTW DRILLING LOG

HOLE NO. 113-21

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4259							
	6						
4258			PID = 0.0 ppm				
	7	Metal shavings, plastic, styrofoam, soda straw, oil?, soaked rag (non-volatile) 10%					
4257							
	8						
4256							
	9	FILL (CL) - Sandy Clay with Silt, moist, dark brown, calcareous, with occasional caliche nodules up to 1/4" diam. and 1/4" size gravel	PID = 0.0 ppm				Core run 3, 9-14' Rec = 3.0'/5.0'
4255							
	10						
4254							
	11						
4253		Metal, wood (partially burned?), plastic, paper - 5%					
	12						
4252							
	13						
4251							
	14						

HTW DRILLING LOG

HOLE NO. 113-21

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4250		FILL (CL) - Sandy Clay with Silt, moist, tan to dark brown, calcareous, with white spots and caliche nodules to 1/4", trash; wine, glass, small metallic flakes, looks like mica (from a lens?) 10%					Core run 4, 14-19' Rec=2.5'/5.0'
	15		PID=0.0 ppm				
4249							
	16						
4248							
	17	(SM) - Silty Sand, slightly Clayey, slightly moist, orange-brown, fine grained, occasional quartz grains	PID=0.0 ppm				Base of cell at 17'
4247							
	18						
4246							
	19						
4245							
	20	(SM) - Sand, dense, dry, orange-brown, fine to medium grained, calcareous, abundant caliche nodules up to 1 1/2"	PID=0.0 ppm			17	N=60 Rec=2.0'/2.0'
4244						25	
	21						
4243						35	
						45	
	22	(SM) - Silty Sand, very dense, dry, light orange-brown, fine grained, calcareous, with occasional caliche nodules up to 1", white	PID=0.0 ppm		CAN113 B321-1022	47	N=100+ Rec=0.9'/0.9' Time: 1549
4242						100	
	23						

HTW DRILLING LOG

HOLE NO. 113-21

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Split spoon refusal at 22.9'
4241							
	24						
4240							
	25						
4239							
	26						
4238							
	27	(SM) - Silt Sand, slightly Clayey, very dense, dry, light pinkish brown, fine grained, calcareous, with occasional caliche nodules to 1/2" diam., tan to white	PID = 0.0 ppm		CAN113 B321-1027	21	N = 95 Rec = 1.8'/2.0' Time: 1633
4237						45	
	28					50	
4236						51	
	29						
4235							
	30	(SM) - Silty Sand, very dense, dry, light pinkish brown, fine grained, calcareous, occasional caliche nodules up to 1/2" diam., white	PID = 0.0 ppm			5	N = 129 Rec = 1.5'/2.0'
4234						50	
	31					79	
4233						89	
	32						

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-21

HTW DRILLING LOG

HOLE NO. 113-21

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4232							
	33						
4231							
	34						
4230							
	35	(SM) - Silty Sand, slightly Clayey, very dense, dry, light pinkish brown, fine grained, calcareous	PID = 0.0 ppm		CAN113 8321-1036	44	N = 100 + Rec = 0.8'/0.8' Time: 1712
4229						100	
	36						Split spoon refusal at 35.8'
4228							
	37						
4227							
	38						
4226							
	39						
4225							
	40	(SM) - Silty Sand, very dense, dry, orange-brown, fine to medium grained, calcareous, abundant quartz grains, partially cemented to caliche	PID = 0.0 ppm			16	N = 100 + Rec = 0.6'/0.9'
4224						100	
	41						

HTW DRILLING LOG

HOLE NO. 113-21

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Split spoon refusal at 40.9'
4223							
	42						
4222							
	43						
4221							
	44						
4220							
	45	(SM) - Silty Sand, slightly Clayey, very dense, dry, light orange-brown, fine grained, calcareous, with occasional caliche nodules, white	PID = 0.0 ppm		CAN113 B321-1045	27	N = 95 Rec = 1.6'/1.8' Time: 1750
4219						42	
	46					53	
4218						100 +	
	47						Split spoon refusal at 46.8'
4217							
	48						
4216							
	49						
4215							
	50						

HTW DRILLING LOG

HOLE NO. 113-21

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4214		(SM) - Silty Sand, slightly Calyey, dense, dry, light orange-brown, fine grained, calcareous, occasional quartz grains, abundant caliche nodules up to 1" diam.	PID = 0.0 ppm			22	N = 85 Rec = 2.0'/2.0'
	51					37	
4213						48	
						77	
	52						
4212							
	53						
4211							
	54						
4210							
	55						
4209							
	56						
4208							
	57	(SM) - Silty Sand, very dense, dry, light orange-brown, fine grained, calcareous, occasional quartz grains, occasional caliche nodules	PID = 0.0 ppm	CAN1213 B321-4057	CAN113 B321-1057	42	N = 200 + Rec = 1.8'/1.8' Time: 0830
4207						100 +	
	58					100	
4206						100 +	
	59	TD = 58.8'					Split spoon refusal at

HTW DRILLING LOG

HOLE NO. 113-21

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							58.8'
4205							
	60						Borehole grouted to surface with cement/bentonite grout 9 bags cement, 1 bag bentonite
4204							
	61						
4203							
	62						
4202							
	63						
4201							
	64						
4200							
	65						
4199							
	66						
4198							
	67						
4197							
	68						

HTW DRILLING LOG

HOLE NO.	113-22
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 8 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	D. Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 3/4" I.D. HSA; 5" CME core barrel w/polybutyrate liners; 3" O.D. Calif. split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N950, E1350
9. SURFACE ELEVATION	4263.6
10. DATE STARTED	07/23/95
11. DATE COMPLETED	07/24/95
12. OVERBURDEN THICKNESS	58.5'
15. DEPTH GROUNDWATER ENCOUNTERED	NA
13. DEPTH DRILLED INTO ROCK	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	NA
14. TOTAL DEPTH OF HOLE	58.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	1	0	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			J.B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4263	1		PID results reported above background PID = 0.0ppm		CAN113 B322-1000		Took surface soil sample at 1356, 0-0.5' Begin drilling at 1703 Core run 1, 0-4' Rec = 2.5'/4.0'
4262	2	FILL (ML) - Sandy Silt, dense, dry, dark brown to reddish brown, first trash at 2.5' includes metal, wire, screen, plastic, possible ash? rare, trace rootlets					
4261	3	FILL (SM) - Silty Sand, very dense, damp, dark reddish brown					
4260	4						Core run 2, 4-9' Rec = 3.0'/5.0'
4259	5						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-22	Landfill No. 5 Phase 1 RFI	J.B. DuBois	2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4258							
	6	FILL (SM) - Silty Sand, very dense, damp to moist, well mixed with charcoal/ash matter	PID = 0.0ppm				
4257							
	7	FILL (SM) - Clayey Sand with Silt, dense, moist, dark red-brown, medium plasticity, odor - not chemical odor, soil well mixed with aluminum can, plastic, paper, carbon paper					
4256							
	8	FILL - Sand, as above, no trash observed					
4255							
	9						Core run 3, 9-14' Rec = 2.8'/5.0'
4254							
	10						
4253							
	11	FILL (SM) - Sand , as above, very soft, damp, becoming light pink to reddish brown, some caliche nodules, no trash from 11.2-12.6'	PID = 0.1 to 0.2ppm				
4252							
	12						
4251		Some possible asbestos material and a metal piece present					
	13						Base of cell at 13'
4250		(SP) - Sand, trace Silt, medium dense to dense, damp, reddish orange, predominantly medium grained with some fine grained, mottled, caliche nodules, no					
	14						

HTW DRILLING LOG

HOLE NO. 113-22

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		trash or debris observed Sand, as above, becoming dry					Rec=3.9'/4.0'
4249							
	15						
4248							
	16	Sand, as above, with abundant gray-white material (ash possible?), mottling, calcareous					
4247		Sand, as above, becoming more calcareous, mottled to 18'					
	17						
4246							
	18	(SP) - Sand, trace Silt, loose, dry, light reddish orange, predominantly medium grained with little fine grained quartz, subrounded, calcareous	PID=0.0ppm		CAN113 B322-1018	8	N=17 Rec=2.0'/2.0' Time: 0729
4245						9	
	19					8	
4244						13	
	20		PID=0.0ppm			6	N=26 Rec=0.8'/2.0'
4243						10	
	21	Caliche, medium dense, dry, white to light pink, very calcareous, well cemented for 21.2-21.5'				16	
4242						26	
	22	(SP) - Sand, trace Silt, medium dense, dry, medium reddish orange, predominantly fine grained with some medium grained, calcareous					
4241							
	23						

HTW DRILLING LOG

HOLE NO. 113-22

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4240	24						
4239	25	Caliche, trace Sand/Silt, very dense, dry, white to light pink	PID = 0.0ppm		CAN113 B322-1025	100 100	N = 200+ Rec = 0.5'/0.5' Time: 0901
4238	26						Split spoon refusal at 25.5' Will do MS/MSD on sample interval 35-37'
4237	27						
4236	28						
4235	29						
4234	30	(SP) - Sand, very dense, dry, white to light pink, predominantly fine grained, trace medium grained, very calcareous, well cemented	PID = 0.0ppm			100+	N = 100+ Rec = 0.3'/0.3'
4233	31	Cuttings from auger look like caliche and well cemented sand					Split Spoon refusal at 30.3' Interval continued to be "hard" drilling to 34.5'
4232	32						

HTW DRILLING LOG

HOLE NO. 113-22

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4231	33						
4230	34						
4229	35	(SP) - Sand, trace Silt, dense, dry, light pinkish orange, fine grained, very calcareous with nodules of reddish orange, medium grained sand	PID = 0.0ppm		CAN113 B322-1035	48	N = 180 + Rec = 1.2'/1.2' Time: 0934
4228	36					80 100 +	
4227							Split spoon refusal at 36.2'
4226	37						
4225	38						
4224	39						
4223	40	(SP) - Sand, trace Silt, dense, dry, light pinkish white to light reddish orange, more calcareous	PID = 0.0ppm			18 40	N = 67 Rec = 1.5'/2.0'
	41						

HTW DRILLING LOG

HOLE NO. 113-22

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		from 40.5-41.3', sand predominantly fine grained to 41.3', medium grained to 42'				27	
4222						32	
	42						
4221							
	43						
4220							
	44						
4219							
	45	(SP) - Sand trace Silt, very dense, damp to moist, light reddish orange, medium grained, subrounded to rounded (sand was moist)	PID = 0.5ppm		CAN113 B322-1045	46	N = 100 + Rec = 1.0'/1.0' Time: 1003
4218						100 +	
	46						
4217							
	47						
4216							
	48						
4215							
	49						
4214							
	50						

HTW DRILLING LOG

HOLE NO. 113-22

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: J.B. DuBois

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4213	51	(SP) - Sand, trace Silt, very dense, dry, pinkish orange, medium grained, subrounded to rounded, slight calcareous, becoming silty at 51.2', well, cemented	PID = 0.0ppm			27 69 100+	N = 169 Rec = 0.9'/1.5'
4212	52						Split spoon refusal at 51.4'
4211	53						
4210	54						
4209	55		PID = 0.0ppm		CAN113 B322-1056	100+	N = 100+ Rec = 0.0'/0.4' Time: 1112
4208	56						Split spoon refusal at 55.4'
4207	57	(SP) - Sand, trace Silt, very dense, dry, light pinkish orange, fine to medium grained, calcareous	PID = 0.0ppm			37 62	N = 142 Rec = 1.7'/2.0' Time: 1112
4206	58					80 100+	
4205	59	TD = 58.5'					Stopped drilling at 1105 at 58.5'

HTW DRILLING LOG

HOLE NO.	113-22
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	J.B. DuBois
SHEET 8 OF 8 SHEETS	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							Grouted borehole from 58.5' to surface
4204							
	60						
							Grout mixture: 3/4 bags (50#) bentonite 9 bags (100#) portland cement and water Placed wood location stake beside grouted hole
4203							
	61						
4202							
	62						
4201							
	63						
4200							
	64						
4199							
	65						
4198							
	66						
4197							
	67						
4196							
	68						

HTW DRILLING LOG

HOLE NO.	113-23
SHEET 1 OF 7 SHEETS	

1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 1/4"I.D. HSA; 5' CME Core barrel; w/polybutyrate liners 2 1/2" I.D. Calif. split spoon w/s.s. liners
8. HOLE LOCATION	N1150, E1350
9. SURFACE ELEVATION	4263.6
10. DATE STARTED	07/24/95
11. DATE COMPLETED	07/24/95
12. OVERBURDEN THICKNESS	5.1
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	55.1'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	1	2	2	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			David K Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4263		FILL (SM) - Silty Sand, dry, mottled brown, red, tan, calcareous, roots in upper 6"	PID = 0.0 ppm				PID readings recorded as above background Core run 1, 0-4' Rec = 4.0'/4.0'
	1						
4262							
	2						
4261		FILL (SM) - Clayey Sand, with Silt, dry, red-brown to tan, with white patches, calcareous, one 1/2" piece of cardboard seen at bottom of core, unburned	PID = 0.0 ppm				
	3						
4260							
	4						Core run 2, 4-9' Rec = 2.5'/5.0'
4259							
	5						

HTW DRILLING LOG

HOLE NO. 113-23

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4258	6	FILL (SM) - Silty Sand, dry, light brown with white patches, fine grained calcareous, trash (20%); paper, metal fragments, glass, cardboard, possibly partially burned	PID=0.0 ppm				
4257	7						
4256	8						
4255	9	FILL (CL) - Sandy Clay, with Silt, slightly moist, light orange-brown to dark brown, occasional white spots and streaks, calcareous, with 5% trash-rubber, partially burned wood	PID=0.0 ppm				Core run 3, 9-14' Rec=3.0'/5.0'
4254	10						
4253	11						
4252	12						
4251	13						
4250	14						

HTW DRILLING LOG

HOLE NO. 113-23

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4249		(SM) - Silty Sand, slightly Clayey, dry, orange-brown, fine grained, calcareous, no trash, occasional caliche nodules, white, up to 1" diam.					Base of cell at 14'
							Core 4, 19-24' Rec = 3.0'/5.0'
	15		PID = 0.0 ppm				
4248							
	16						
4247							
	17						
4246							
	18						
4245							
	19	Caliche, very dense, dry, tan, composed of sand, fine grained, and silt, thoroughly cemented with numerous solution pits, occasional quartz grains	PID = 0.0 ppm		CAN113 B323-1019 CAN113 B323-0509 (MRD)	100 +	N = 200 + Rec = 1.5'/1.5' Time: 0908
4244						100 +	
	20					100 +	
4243							
	21						
4242							
	22						
4241							
	23						

HTW DRILLING LOG

HOLE NO. 113-23

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4240							
	24	(SM) - Silty Sand, dense, dry, light orange-brown, fine grained, calcareous, partially cemented to caliche, occasional caliche nodules up to 1/2", white	PID = 0.0 ppm	CAN113-B323-4024	CAN113-B323-1024	13	N = 61 Rec = 1.8'/2.0' Time: 0940
4239						28	
	25					33	
4238						44	
	26						
4237							
	27						
4236							
	28						
4235							
	29						
4234							
	30	(SM) - Silty Sand, very dense, dry, light orange-brown, fine grained, calcareous, with occasional caliche nodules up to 1" diam., tan-white	PID = 0.0 ppm			34	N = 113 Rec 2.0'/2.0'
4233						51	
	31					62	
4232						100	
	32						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-23	Landfill No. 5 Phase 1 RFI	David K Nicholson	5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4231							
	33						
4230							
	34						
4229							
	35	(SM) - Silty Sand, with Clay, very dense, dry, light orange-brown, fine to medium grained, calcareous, partially cemented to caliche	PID = 0.0 ppm		CAN113 B323-1035 CAN113 B323-050A (MRD)	100 +	N = 200 + Rec = 0.6'/0.6' Time: 1015
4228						100 +	
	36					100 +	Split spoon refusal at 35.7' Respooned for remaining sample N = 100 + Rec = 0.7'/0.7' Split spoon refusal at 36.5'.
						100 +	
4227							
	37						
4226							
	38						
4225							
	39						
4224							
	40	(SM) - Silty Sand, slightly Clayey, dense, dry, light orange-brown with red circular spots and white stringers, fine grained, calcareous	PID = 0.0 ppm			24	N = 66 Rec = 2.0'/2.0'
4223						30	
	41						

HTW DRILLING LOG

HOLE NO. 113-23

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						36	
4222						35	
	42						
4221							
	43						
4220							
	44						
4219							
	45	(SM) - Silty Sand, dense, dry, orange-brown, very fine grained, calcareous, occasional caliche nodules up to 1" diam.	PID = 0.0 ppm		CAN113 B323-1045	14	N = 60 Rec = 2.0'/2.0' Time: 1113
4218						26	
	46						
						34	
4217						33	
	47						
4216							
	48						
4215							
	49						
4214							
	50						

HTW DRILLING LOG

HOLE NO. 113-23

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4213	51	(SM) - slightly Silty Sand, dense, dry, orange-brown, very fine grained, calcareous, a few caliche nodules up to 1' diam., white	PID = 0.0 ppm			15 34 42 44	N = 76 Rec = 2.0'/2.0'
4212	52						
4211	53						
4210	54	(SM) - Silty Sand, very dense, dry, light orange-brown, very fine grained, calcareous	PID = 0.0 ppm		CAN113 B323-1054	27 100+	N = 100+ Rec = 1.1'/1.1' Time: 1148
4209	55						
4208	56	TD = 55.1'					Split spoon refusal at 55.1' Borehole grouted to surface with cement/bentonite grout 11 bags cement, 1 bag bentonite
4207	57						
4206	58						
4205	59						

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-23

HTW DRILLING LOG

HOLE NO.	113-24
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 8 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 1/4" I.D.HSA; 5' CME Core barrel w/ polybutyrate liners 2 1/2" I.D. Calif. split spoons with s.s. liners
8. HOLE LOCATION	N900, E1500
9. SURFACE ELEVATION	4265.9
10. DATE STARTED	07/28/95
11. DATE COMPLETED	07/28/95
12. OVERBURDEN THICKNESS	60'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	60.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
5	5	5	5	5	5	1	0	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Grout			David K Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4265	1	FILL (SM) - Sand, Clayey with Silt, dry, mottled light brown, dark brown, white, red-brown, calcareous, no trash	PID = 0.0 ppm				PID readings recorded as above background Core run 1, 0-4' Rec = 3.5'/4.0'
4264	2						
4263	3						
4262	4	FILL (CL) - Silty Sand with Clay, slightly moist, tan to dark brown with mottled white and red-brown streaks and spots, calcareous, plastic, wood	PID = 0.0 ppm				Core run 2, 4-9' Rec = 2.3'/5.0'
4261	5						

HTW DRILLING LOG

HOLE NO. 113-24

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		fragments, cardboard, partially burned, volume (5%), slight garbage odor					
4260	6						
4259	7						
4258	8						
4257	9	FILL (CL) - Clay, Sandy with Silt, dry, light to dark streaks and spots, calcareous, cloth, metal cardboard, paper, carbon paper, volume (25%), moderate garbage odor	PID = 0.0 ppm				Core run 3, 9-14' Rec = 2.0'/5.0'
4256	10						
4255	11						
4254	12						
4253	13						
4252	14						

HTW DRILLING LOG

HOLE NO. 113-24

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL (CL) - Sandy Clay, with Silt, slightly moist, light brown to red-brown, calcareous, and trash, plastic, paper, cardboard, styrofoam, metal, rubber, horse manure, trash volume (50%)	PID = 0.0 ppm				Core run 4, 14-19' Rec = 4.0'/5.0'
4251	15						
4250	16						
4249	17						
4248	18	(SM) - Clayey Sand, with Silt, slightly moist, red-brown with white patches, occasional quartz grains, fine grained, calcareous					Base of cell at 18'
4247	19	(SM) - Clayey Sand, with Silt, slightly moist., red-brown, fine grained, calcareous, occasional quartz grains, no trash	PID = 0.0 ppm				Core run 5, 19-23.5'
4246	20						
4245	21						
4244	22						
4243	23						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-24	Landfill No. 5 Phase 1 RFI	David K Nicholson	4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Caliche, very hard, white					
4242	24	(SM) - Silty Sand, very dense, dry, light pinkish brown, partially cemented to caliche, very hard, caliche, white	PID = 0.0 ppm		CAN113 B324-1024	44 65 56 49	N = 111 Rec = 2.0'/2.0' Time: 0900
4241	25						
4240	26						
4239	27						
4238	28						
4237	29	(SM) - Silty Sand, very dense, dry, light pinkish brown, with occasional caliche nodules up to 1/2", white	PID = 0.0 ppm		CAN113 B324-1029	53 100	N = 100+ Rec = 0.8'/0.8' Time: 0920
4236	30						Split spooon refusal at 29.8'
4235	31						
4234	32						

HTW DRILLING LOG

HOLE NO. 113-24

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4233	33						
4232	34						
4231	35	(SM) - Silty Sand, very dense, dry, white to orange-brown, occasional quartz grains, occasional caliche nodules up to 1' diam., fine grained	PID = 0.0 ppm			24 44 74 100	N = 118 Rec = 1.9'/1.9'
4230	36						
4229	37						Split spoon refusal at 36.9'
4228	38						
4227	39						
4226	40	(SM) - Silty Sand, slightly Clayey, medium dense, dry, orange-brown, fine grained, calcareous, quartz grains, with occasional caliche nodules up to 1" diam., white	PID = 0.0 ppm		CAN113 B324-1040	14 15	N = 37 Rec = 1.6'/2.0' Time: 0955
4225	41						

HTW DRILLING LOG

HOLE NO. 113-24

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						22	
						39	
4224	42						
4223	43						
4222	44						
4221	45	(SM) - Silty Sand, very dense, dry, light orange-brown, very fine grained to fine grained, calcareous, with abundant caliche nodules up to 2", tan-white	PID = 0.0 ppm			24	N = 97 Rec = 2.0'/2.0'
4220	46					43	
						54	
4219	47					56	
4218	48						
4217	49						
4216	50						

HTW DRILLING LOG

HOLE NO. 113-24

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		(SM) - Silty Sand, very dense, dry, light orange-brown, very fine grained to fine grained, calcareous, with occasional caliche nodules to 3/4", white	PID = 3.2 ppm		CAN113 B324-1050	100 + 100 +	N = 100 + Rec = 0.8'/0.8' Time: 1025
4215	51						Split spoon refusal at 50.8'
4214	52						
4213	53						
4212	54						
4211	55	(SM) - Silty Sand, very dense, dry, light orange-brown, fine to medium grained, calcareous, occasional quartz grains, occasional caliche nodules to 1".	PID = 0.0 ppm			40 100	N = 100 + Rec = 0.9'/0.9'
4210	56						Split spoon refusal at 55.9'
4209	57						
4208	58	(SM) - Silty Sand, fine to medium grained, cemented to caliche	PID = 0.0 ppm	CAN113 B324-4058		100 +	N = 100 + Rec = 0.4'/0.4' Time: 1115
							Split spoon refusal at 58.4'
4207	59						

HTW DRILLING LOG

HOLE NO. 113-24

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4206	60	(SM)- Silty Sand, very dense, dry, light orange-brown, fine grained, calcareous, occasional caliche nodules to 1/2", partially cemented to caliche	PID = 0.0 ppm		CAN113 B324-1059	100+ 100+	N = 100+ Rec = 1.0'/1.0' Time: 1135
		TD = 60'					Split spoon refusal at 60'
4205	61						Borehole grouted to surface with cement/bentonite grout. 9 bags cement, 1 bag bentonite
4204	62						
4203	63						
4202	64						
4201	65						
4200	66						
4199	67						
4198	68						

HTW DRILLING LOG

HOLE NO.	113-25
SHEET 1 OF 8 SHEETS	
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dave Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 3" O.D. Calif. split spoon w/s.s. liners, 1' I.D. split spoon
8. HOLE LOCATION	N900, E1200
9. SURFACE ELEVATION	4262.8
10. DATE STARTED	07/23/95
11. DATE COMPLETED	07/23/95
12. OVERBURDEN THICKNESS	62
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	62.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	1	0	0	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
			PID = 0.0 ppm		CAN113 B325-1000		Core run 1, 0-4' Rec = 2.9'/4.0' Time: 0825
4262	1	FILL (ML) - Sandy Silt, medium stiff, dry, tan to light brown					PID results are reported as above background
4261	2						
4260	3	FILL (SM) - Silty Sand, dense, dry, medium brown to dark brown, very fine to fine grained, trace caliche, rare trash, one nail, piece of duct tape					
4259	4	FILL (SM) - Sand, as above, predominantly medium brown to dark brown, with mottling at 5-5.8', caliche nodules rare, possible trace ash at 5' and piece of metal	PID = 0.0 ppm				Core run 2, 4-9' Rec = 1.8'/5.0'
4258	5						

HTW DRILLING LOG

HOLE NO. 113-25

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4257	6	FILL - No recovery due to trash zone encounter					Driller encountered "trash" at approximately 6' and no recovery from 6-9'
4256	7		PID = 0.0 ppm				
4255	8						
4254	9		PID = 0.0 ppm				Core run 3, 9-14' Rec = 1.8'/5.0'
4253	10						
4252	11						
4251	12						
4250	13	FILL (SM-SC) - Silty Sand with Clay, dense, moist, dark brown to reddish brown, fine grained, trace medium grained, trace ash and charcoal debris throughout 1.8', caliche nodules rare, no stain or discoloration observed					
4249	14						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-25	Landfill No. 5 Phase 1 RFI	Jeanette B. DuBois	3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
			PID = 0.0 ppm				Core run 4, 14-19' Rec = 3.0'/5.0'
4248	15						
4247	16	FILL (SM) - Silty Sand, medium dense, slightly moist, medium brown to reddish brown, fine to medium grained, trash in interval from 16-18.5', included glass, wire (plastic coated), trace to little ash and charcoal debris, 17-18', metal pieces, big chunk (1') wood	PID = 0.0 ppm				
4246	17						
4245	18						
4244	19	(SM) - Silty Sand, medium dense, dry, dark red-orange, predominantly medium grained, trace fine grained, subrounded to rounded, no trash	NR				Base of cell at 18.5' Core run 5, 19-24' Rec = 3.5'/5.0'
4243	20						
4242	21	(SM) -Silty Sand, dense, dry, buff, very calcareous, fine to medium grained, subrounded, trace mottled interval at approximately 22-22.5'					
4241	22						
4240	23						

HTW DRILLING LOG

HOLE NO.	113-25
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	Jeanette B. DuBois
SHEET	4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4239							
	24	(SM) - Sand, trace Silt, medium dense, dry, light orange-red, trace caliche nodule in interval 24-24.4', slightly calcareous throughout, predominantly fine grained, in top foot (24-25'), becoming more medium grained with little fine grained quartz	PID = 0.0 ppm	CAN113 B325-4024	CAN113 B325-1024	10	N = 32 Rec = 2.0'/2.0' Time: 1015
4238						14	
	25					18	
4237						26	
	26						
4236							
	27						
4235							
	28						
4234							
	29						
4233							N = 100 + Rec = 0.9'/0.9' Time: 1036
	30	Caliche, very hard, dry, pinkish orange, becoming white in part (caliche), very calcareous with rare caliche nodules	PID = 0.0 ppm		CAN113 B325-1030	40	
4232						100 +	
	31						Split spoon Refusal at 30.9'
4231							
	32						

HTW DRILLING LOG

HOLE NO. 113-25

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4230	33						
4229	34						
4228	35	Caliche, very dense, dry, buff to light reddish tan, very calcareous, fine to medium grained quartz sand	PID = 0.0 ppm			12	N = 84 Rec = 1.1'/2.0'
4227	36					48	
						36	
4226	37	(SM) - Sand, trace Silt, dense, dry, medium reddish tan, predominantly medium grained with trace of fine to coarse grained				27	
4225	38						
4224	39						
4223	40	(SM) - Sand, trace Silt, medium dense, dry, medium reddish tan, calcareous, fine grained, little medium grained quartz, subrounded	PID = 0.0 ppm		CAN113 8325-1040	10	N = 36 Rec = 1.9'/2.0' Time: 1112
4222	41					15	

/CORPS-B/11-30-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-25

HTW DRILLING LOG

HOLE NO. 113-25

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						21	
4221	42					25	
4220	43						
4219	44						
4218	45		PID = 0.0 ppm			17	N = 45 Rec = 1.6'/2.0'
4217	46	(SM) - Sand, trace Silt, medium dense, dry, reddish orange, predominantly medium grained, trace fine grained, silt layer from 45.8-46.1', very calcareous				21	
						24	
4216	47					28	
4215	48						
4214	49						
4213	50						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-25	Landfill No. 5 Phase 1 RFI	Jeanette B. DuBois	7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Sand, as above	PID = 0.0 ppm		CAN113 B325-1050	200 +	N = 100 + Rec = 0.5'/0.5' Time: 1152
4212	51	Caliche, very hard, dry, light pinkish tan, very calcareous (at 50.4-50.5', refusal at 50.5')					Split spoon Refusal at 50.5'
4211	52						
4210	53	At approximately 52.5' from cuttings, Sand, some Silt, very dense, white very calcareous, well cemented, poorly sorted					
4209	54						
4208	55	Caliche, very hard, dry, white to light tan, becoming sand with trace silt at 55.4', very dense, dry, tan, poorly sorted, with trace fine grained, medium coarse, well cemented, calcareous	PID = 0.0 ppm			50 100 +	N = 100 + Rec = 0.8'/0.8'
4207	56						Split spoon Refusal at 55.8'
4206	57						
4205	58						
4204	59						

HTW DRILLING LOG

HOLE NO. 113-25

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4203	60	(SM) - Silty Sand, dense, damp,orange to buff, predominantly fine grained with medium and trace coarse grained quartz, subrounded, poor to moderate sorting, very calcareous	PID = 0.0 ppm		CAN113 B325-1060	17	N = 71 Rec = 1.9'/1.9' Time: 1303
4202	61					28	
						43	
4201	62					100 +	
		TD = 62'					Grout hole to surface with 1 bag bentonite, 9 bags portland
4200	63						
4199	64						
4198	65						
4197	66						
4196	67						
4195	68						

HTW DRILLING LOG

HOLE NO.	113-26
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 7 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 1/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon with s.s. liners
8. HOLE LOCATION	N835, E1000
9. SURFACE ELEVATION	4260.3
10. DATE STARTED	07/23/95
11. DATE COMPLETED	07/23/95
12. OVERBURDEN THICKNESS	56.5'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	56.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
8	8	8	8	8	8	1	2	2	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4260		FILL (SM) - Silty Sand, dry, red-brown to tan, fine grained, calcareous, with mottled white areas, a little trash in lower 1'; plastic, leaves, rubber, no burning	PID = 0.0 ppm				PID readings are recorded as above background Core run 1, 0-4.5' Rec = 3.0'/4.5'
	1						1
4259							
	2						2
4258							
	3						3
4257							
	4						4
4256							Core run 2, 4.5-9.5' Rec = 5.0'/5.0'
	5						5

HTW DRILLING LOG

HOLE NO.	113-26
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	David K. Nicholson
SHEET	2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4255		FILL (SM) - Silty Clayey Sand, dry, mottled dark brown, brown, tan, white, fine grained, calcareous, with sparse trash; metal, plastic, metal shavings, possible charcoal, (possible evidence of burning) trash (5%)	PID = 0.0 ppm				
	6						
4254							
	7						
4253							
	8						
4252							
	9						
4251							
		FILL (CL) - Silty Sandy Clay, moist, mottled red, white, tan, yellow, calcareous, with burned paper and wood, metal, unburned plastic, and partially burned paper, trash (10%)	PID = 0.0 ppm				Core run 3, 9.5-14.5' Rec = 4.0'/5.0'
	10						
4250							
	11						
4249							
	12						
4248							
	13						
4247							
	14						

HTW DRILLING LOG

HOLE NO. 113-26

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4246		FILL - burned paper, some charcoal, metal, and glass, trash volume (30%)	PID = 0.0 ppm				Core run 4, 14.5-19'
	15						Driller reported very hard drilling
4245							
	16						
4244							
		(SM) - Silty Sand, dry, light pink-orange, fine grained, cemented to caliche	PID = 0.0 ppm				Base of Cell at 16.5'
	17						
4243							
	18						
4242							
	19						
4241							
	20						
4240							
	21						
4239							
	22	(SM) - Silty Sand, very dense, dry, light pink-orange, fine grained, calcareous, partially cemented to caliche	PID = 0.0 ppm		CAN113 B326-1021 CAN113 B326-0567 (Dup)	31	N = 175 + Rec = 1.5'/1.5' Time: 1244
4238						75	
						100 +	
	23						

HTW DRILLING LOG

HOLE NO. 113-26

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4237							Split spoon refusal at 23'
	24						
4236							
	25						
4235							
	26						
4234							
	27	(SM) - Silty Sand, slightly Clayey, dense, dry, light brown to red, fine grained, calcareous	PID = 0.0 ppm		CAN113 B326-1027 CAN113 B326-050B (MRD)	8	N = 75 Rec = 1.7'/2.0' Time: 1309
4233							
						25	
	28						
4232						50	
						65	
	29						
4231							
	30						
4230							
	31						
4229							
	32						

HTW DRILLING LOG

HOLE NO. 113-26

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4228		(SM) - Silty Sand, slightly Clayey, medium dense, dry, light orange, fine grained, calcareous, with occasional caliche nodules up to 1/2" diam., white	PID = NR			15	N = 51 Rec = 2.0'/2.0'
						25	
	33						
4227						26	
						32	
	34						
4226							
	35						
4225							
	36						
4224							
	37						
4223		(SM) - Silty Sand, slightly Clayey, medium dense, dry, light orange, fine grained, calcareous, occasional caliche nodules up to 1/2" diam., white	PID = 0.0 ppm		CAN113 B326-1037 CAN113 B326-050C (MRD)	9	N = 46 Rec = 2.0'/2.0' Time: 1355
						22	
	38						
4222						24	
						25	
	39						
4221							
	40						
4220							
	41						

HTW DRILLING LOG

HOLE NO. 113-26

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4219							
	42	(SM) - Silty Sand, very dense, dry, fine to medium grained, calcareous, occasional quartz grains, occasional caliche nodules to 1/2" diam., white	PID = 0.0 ppm				
4218						19	N = 123 Rec = 2.0'/2.0'
						61	
	43						
4217						62	
						70	
	44						
4216							
	45						
4215							
	46						
4214							
	47	Caliche, white-tan	PID = 0.0 ppm		CAN113 B326-1047		
4213						100+	N = 100+ Rec = 0.5'/0.5' Time: 1540
							Split spoon refusal at 47.5'
	48						
4212							
	49						
4211							
	50						

HTW DRILLING LOG

HOLE NO. 113-26

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4210							
	51						
4209							
	52						
4208							
	53						
4207							
	54						
4206							
	55	(SM) - Silty Sand, very dense, dry, light orange-brown, fine grained, calcareous, with occasional caliche nodules to 1/4" diam., tan-white	PID = 0.0 ppm	CAN113 B326-4055	CAN113 B326-1055	33	N = 188 + Rec = 1.5'/1.5' Time: 1627
4205						88	
	56						
4204						100 +	
		TD = 56.5'					Split spoon refusal at 56.5'
	57						Borehole grouted to surface with cement/bentonite grout 9 bags cement, 1 bag bentonite
4203							
	58						
4202							
	59						

HTW DRILLING LOG

HOLE NO.	113-27
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 8 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75, 3 1/4' I.D.HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon with s.s. liners
8. HOLE LOCATION	N 1250, E 1175
9. SURFACE ELEVATION	
10. DATE STARTED	07/22/95
11. DATE COMPLETED	07/23/95
12. OVERBURDEN THICKNESS	58.1'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	58.1'
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	58.1'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1		N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	1	0	2	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
abandonded	grouted			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	1	FILL (SM) - Silty Sand, dry, light pink-brown, fine grained, calcareous, with scattered trash woody debris, plastic, tin foil, leaves, roots in upper 6", (no evidence of burning)	NR				Core run 1, 0-4.5' Rec=3.0'/4.5' Time: 1459 PID readings are recorded as above background
	2						
	3						
	4						
	5						

HTW DRILLING LOG

HOLE NO. 113-27

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 2 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL (SM) - Silty Sand, light brown with mottled red, white spots, fine grained, intermittent trash - plastic, paper, cardboard, drywall, piece of bone, possibly partially burned	NR				Core run 2, 4.5-9.5' Rec=3.2'/5.0'
	6						
	7						
	8						
	9						
		FILL (SM) - Silty Sand, light pink brown, fine grained, with abundant trash - plastic, carbon paper, rubber, drywall	PID=4.8 ppm				Core run 3, 9.5-14.5' Rec=3.0'/4.5'
	10						
	11						
	12						
	13						
	14						

HTW DRILLING LOG

HOLE NO. 113-27

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 3 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	15	Wood, partially burned, paper					Core run 4, 14.5-19'
	16	(SM) - Silty Sand, dry, orange to white, fine-grained, calcareous, with caliche nodules up to 1/2", white to tan	PID = 0.0 ppm				Base of cell at 16'
	17						
	18						
	19	(SM) -Silty Sand, dense, dry, orange with white streaks, fine-grained, with medium size quartz grains (rare), calcareous, soft	PID = 0.0 ppm			19	N = 71 Rec = 2.0'/2.0'
						32	
	20					39	
						55	
	21	(SM) - Silty Sand, dense, dry, orange, fine-grained, calcareous, occasional quartz grains, with caliche nodules up to 1/2" diameter, white to tan			CAN113 B327-1021 CAN113 B327-0500 (MRD)	13	N = 68 Rec = 2.0'/2.0' Time: 1459
						32	
	22		PID = 0.0 ppm			36	
						55	
	23						

HTW DRILLING LOG

HOLE NO. 113-27

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	24						
	25	(SM) - Silty Sand, slightly Clayey, dense, orange to pinkish-white, fine grained, occasional quartz grains, calcareous, with caliche nodules up to 1" diameter	PID = 0.0 ppm		CAN113 B327-1024 CAN113 B327-050E (MRD)	9 19 44 37	N = 63 Rec = 1.7'/2.0' Time: 1513
	26						
	27						
	28						
	29						
	30	(SM) - Silty Sand, very dense, dry, pinkish-orange, calcareous, caliche, medium dense, tan to white	PID = 0.0 ppm			29 78 61 78	N = 139 Rec = 2.0'/2.0'
	31						
	32						

HTW DRILLING LOG

HOLE NO. 113-27

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 5 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	33						
	34						
	35	(SM) - Silty Sand, dense, dry, light orange, fine grained, calcareous, with caliche nodules up to 1" diameter, tan-white	PID = 0.0 ppm	CAN113 B327-4034	CAN113 B327-1034	30 45 40 50	N = 85 Rec = 1.8'/2.0' Time: 1612
	36						
	37						
	38						
	39						
	40	(SM) - Silty Sand, slightly Clayey, dense, dry, mottled red, orange and white, fine grained, calcareous, with caliche nodules up to 1" diameter, tan-white	PID = 0.0 ppm			16 42 35	N = 77 Rec = 2.0'/2.0'
	41						

HTW DRILLING LOG

HOLE NO. 113-27

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 6 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						35	
	42						
	43						
	44						
	45	(SM) - Silty Sand, dense, dry, light pink-orange to white, very fine grained, calcareous, caliche nodules up to 1/4", white	PID = 0.0 ppm		CAN113 8327-1044	22 47 100+	N = 147+ Rec = 1.5'/1.5' Time: 1640
	46						Split spoon refusal at 46.0'
	47						
	48						
	49						
	50	(SM) - Silty Sand, dense, dry, pink-orange, very fine to fine grained, calcareous, and caliche	PID = 0.0 ppm			33	N = 84 Rec = 2.0'/2.0'

HTW DRILLING LOG

HOLE NO. 113-27

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		nodules up to 1", white				38	
						46	
	51					46	51
	52						52
	53						53
	54						54
	55						55
	56						56
						41	
						200+	N=200+ Rec=0.0'/0.0'
	57						57
							Split spoon refusal at 57.1'
	58	(SM) - Silty Sand, very dense, dry, light pink-orange, calcareous, cemented to caliche	PID=0.0 ppm		CAN113 B327-1057	200+	N=200+ Rec=0.6'/0.6' Time: 1850
		TD=58.1'					Sample collected from 57.5-58.1' Spilt Spoon Refusal at 58.1' Borehole grouted to
	59						59

HTW DRILLING LOG

HOLE NO. 113-27

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 8 OF 8 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
							surface with cement/bentonite grout 11 bags cement, 1 bag bentonite
	60						
	61						
	62						
	63						
	64						
	65						
	66						
	67						
	68						

HTW DRILLING LOG

HOLE NO.	113-28
SHEET 1 OF 7 SHEETS	

1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 3" O.D. Calif. split spoon w/s.s. liners 1" I.D. split spoon
8. HOLE LOCATION	N1400, E1070
9. SURFACE ELEVATION	4262.0
10. DATE STARTED	07/22/95
11. DATE COMPLETED	07/22/95
12. OVERBURDEN THICKNESS	57'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	57.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
1	1	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	1	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL - Silt, trace Clay, loose to medium stiff, dry, light brown to medium brown from 1.2-2.7', light gray-brown to 4', caliche nodules in interval between 3-4', trace rootlets at 2-2.5'	PID = 0.0 ppm	CAN113 B328-4000	CAN113 B328-1000		Core run 1, 0-4' Rec = 2.8'/4.0' Time: 0941 PID results reported above background
4261	1						1
4260	2						2
4259	3						3
4258	4		PID = 0.0 ppm				Core run 2, 4-9' Rec = 1.9'/5.0' 4
	5						5

HTW DRILLING LOG

HOLE NO.	113-28
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	Jeanette B. DuBois
SHEET 2 OF 7 SHEETS	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4256	6						
4255	7	FILL - Silt, trace Sand, loose to medium stiff, dry, buff to pink, trace caliche nodules throughout, trace in shoe, includes wood pieces with some creosote?, plastic bag material					
4254	8						
4253	9		PID = 0.0 ppm				Core run 3, 9-14' Rec = 2.5'/5.0'
4252	10						
4251	11						
4250	12	FILL - Sandy Silt, soft, dry, medium brown, trace degraded asphalt, becoming damp at about 12'			CAN113 B328-1012 (Not analyzed)		Took additional split at 12' (approximately) due to visual color and soil/debris type
4249	13	FILL (SM) - Silty Sand, loose, dry, medium gray-brown, intermixed with dark gray soil may be stain?, trace caliche nodules, contains rare plastic material (white), fine to medium grained quartz, carbon paper, wood in shoe	PID = 0.0 ppm				Time: 1053
	14						

HTW DRILLING LOG

HOLE NO. 113-28

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4247	15	FILL - Trash includes paper and plastic bags	PID = 0.0 ppm				Core run 4, 14-19' Rec = 3.0'/5.0'
4246	16	(SM) - Sand trace to little Silt, loose to medium dense, dry, light reddish brown, becoming light tan near 17-18', calcareous, no trash or debris observed	PID = 0.0 ppm				Base of cell at 15.5' Driller indicated change between 15.0-15.5' Exact base cell unknown due to poor recovery
4245	17						
4244	18	Caliche, hard, dry, buff to pinkish white, no trash					
4243	19						
4242	20	Caliche, very dense, piece of plastic in top liner believe it to be slough, drive 2' split spoon (21.5-22.4'), sand grains are fine to medium, subrounded, quartz	PID = 0.0 ppm		CAN113 8328-1020	31	N = 100+ Rec = 1.5'/1.5' Time: 1146
						87	
4241	21					100+	
						40	Split spoon refusal at 21.5 N = 140+ Rec = 0.9'/0.9'
4240	22					100+	
							Split spoon Refusal at 22.4'
	23						

HTW DRILLING LOG

HOLE NO. 113-28

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4238	24						
4237	25	(SP) - Silty Sand, dense, dry, light pinkish tan, fine to medium grained, subrounded to rounded, calcareous, at 26.5-27' sand is light red-orange with some mottling	PID = 0.0 ppm		CAN113 B328-1025	15	N = 53 Rec = 2.0'/2.0' Time: 1224
						21	
4236	26					32	
						40	
4235	27						
4234	28						
4233	29						
4232	30	(SM) - Silty Sand, very dense, dry, white to buff, fine to medium grained, very calcareous	PID = 0.0 ppm			62	N = 100+ Rec = 0.6'/0.6'
						100+	Split spoon Refusal at 30.6'
4231	31						
	32						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-28	Landfill No. 5 Phase 1 RFI	Jeanette B. DuBois	5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4229	33						
4228	34						
4227	35	Caliche, hard, dry, light pinkish orange, fine to medium grained quartz sand, calcareous	PID = 0.0 ppm		CAN113 B328-1035	20	N = 69 Rec = 2.0'/2.0' Time: 1304
						27	
4226	36	(SP) - Sand, trace Silt, medium dense, dry, light pinkish orange, calcareous, mottled with silty sand, orange at 36.7'				42	
						50	
4225	37						
4224	38						
4223	39						
4222	40	Caliche, hard, dry, white to light pink, very calcareous	PID = 0.0 ppm			20	N = 40 Rec = 2.0'/2.0'
						20	
	41						

HTW DRILLING LOG

HOLE NO. 113-28

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		(SP) - Sand, trace Silt, medium dense, dry, reddish orange, fine grained, subrounded to rounded, caliche nodules rare				20 11	
4220	42						
4219	43						
4218	44						
4217	45	(SP) - Sand, dense, slightly moist, light orange-red, medium grained, with trace fine and coarse grains, rounded, quartz	PID = 0.0 ppm		CAN113 B328-1045	14 25 32 47	N = 57 Rec = 2.0'/2.0' Time: 1333
4216	46						
4215	47						
4214	48						
4213	49						
	50						

HTW DRILLING LOG

HOLE NO. 113-28

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Sand, as above, very dense, becoming moist at 51′	PID = 0.0 ppm			20 22 28 30	N = 50 Rec = 2.0′/2.0′
4211	51						
4210	52						
4209	53						
4208	54						
4207	55	(SM) - Sand, trace Silt, dense, damp, light reddish orange, predominantly fine grained, trace medium grained, quartz	PID = 0.0 ppm		CAN113 B328-1055	18 28 40 50	N = 68 Rec = 2.0′/2.0′ Time: 1420
4206	56	Sand, dense, slightly moist, reddish orange, medium grained, trace coarse grained quartz					
4205	57	TD = 57′					Grout borehole from 57′ to surface Grout mixture: 1 bag (50 lb) bentonite, 7 + bags portland
4204	58						
	59						

HTW DRILLING LOG

HOLE NO.	113-29
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 7 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 3" O.D. Calif. split spoon w/s.s. liners 1" I.D. split spoon
8. HOLE LOCATION	N 1200, E 725
9. SURFACE ELEVATION	4262.7
10. DATE STARTED	07/21/95
11. DATE COMPLETED	07/21/95
12. OVERBURDEN THICKNESS	N/A
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	51.8'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	N/A	N/A	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
6	6	6	6	6	6	2	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
			PID = 0.0 ppm				PID results reported above background
4262	1	FILL - Silt and some gravel, brick pieces, loose, dry, light brown, becoming darker brown with small pieces of asphalt (coal tar?) at 1.7'					Core run 1, 0-4'
4261	2	FILL - material consisting of coal tar/asphalt material and plaster material, loose to medium dense, dry, dark brown - black, white in part					
4260	3						
4259	4						Core run 2, 4-9' Rec = 2.9'/5.0'
4258	5						

HTW DRILLING LOG

HOLE NO.	PROJECT	INSPECTOR	SHEET
113-29	Landfill No. 5 Phase 1 RFI	Jeanette B. DuuBois	2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4257	6	FILL - Degraded asphalt, mixed with soil (Silt), loose, dry to damp, dark brown to black, pebbles	PID = 0.0 ppm				
4256	7	(SM) - Silty Sand, medium dense, damp, dark red brown, some caliche at 8.6-9.0', no debris or trash below 7.0'	PID = 0.0 ppm				Base of cell at 7'
4255	8						
4254	9						Core run 3, 9-14' Rec = 3.0'/5.0'
4253	10						
4252	11	Caliche, dry, pinkish tan to reddish brown at depth (12.5-14'), very calcareous, mottled in upper 1.5', caliche nodules at 13-14'	PID = 0.0 ppm				
4251	12						
4250	13						
4249	14						

HTW DRILLING LOG

HOLE NO. 113-29

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuuBois

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		(SM) - Silty Sand, medium dense, dry, reddish orange to red brown, few caliche nodules	PID = 0.0 ppm		CAN113 B329-1014	6	N = 22 Rec = 2.0'/2.0' Time: 1502
4248						10	
	15					12	
4247						14	
	16						
4246							
	17						
4245							
	18						
4244							
	19						
4243							
	20	Caliche, medium dense, dry, buff to pink, sand grains are fine to medium quartz grains, very calcareous	PID = 0.0 ppm		CAN113 B329-1020	5	N = 34 Rec = 2.0'/2.0' Time: 1518
4242						16	
	21					18	
4241		Caliche, dense, damp, dark red brown, quartz grains medium, rounded				28	
	22						
4240							
	23						

HTW DRILLING LOG

HOLE NO. 113-29

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuuBois

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4239	24						
4238	25		PID = 0.0 ppm			4	N = 12 Rec = 0.8'/2.0'
4237	26	(SM) - Silty Sand, loose to medium dense, dry, pink to white, very calcareous, quartz grains fine to medium, subangular, clear to gray				6	
4236						6	
	27					11	
4235	28						
4234	29						
4233	30	(SM) - Sand, trace Silt, dense, dry, light reddish tan to buff, fine to medium grained, quartz grains subangular	PID = 0.0 ppm		CAN113 B329-1030	14	N = 56 Rec = 2.0'/2.0' Time: 1541
4232	31					32	
4231						24	
	32					27	

HTW DRILLING LOG

HOLE NO. 113-29

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuuBois

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4230	33						
4229	34						
4228	35	(SM) - Sand, little Silt, dense, dry, pink to buff in upper 1.5', quartz grains fine to medium, subrounded	PID = 0.0 ppm			14	N = 37 Rec = 1.8'/2.0'
4227	36					17	
4226						20	
	37					23	
4225	38						
4224	39						
4223	40	(SM) - Sand, little Silt, very dense, dry, light reddish orange to pink, fine to medium sand grains, calcareous cement, subrounded, mottled in lower 8" (41.8')	PID = 0.0 ppm		CAN113 B329-1040	27	N = 102 Rec = 2.0'/2.0' Time: 1605
4222	41					68	

HTW DRILLING LOG

HOLE NO. 113-29

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuuBois

SHEET 6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
						34	
4221						50	
	42						
4220							
	43						
4219							
	44						
4218							
	45	(SM) - Sand, trace Silt, dense, dry, light pinkish tan, medium grained, subrounded, calcareous	PID = 0.0 ppm			7	N = 34 Rec = 1.5'/2.0'
4217						14	
	46						
						20	
4216						18	
	47						
4215							
	48						
4214							
	49						
4213							
	50						

/CORPS-B/12-03-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-29

HTW DRILLING LOG

HOLE NO. 113-29

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuuBois

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4212	51	(SM) - Sand, trace Silt, very dense, slightly moist, light pinkish tan, fine to medium grained quartz grains, subrounded	PID-0.0 ppm		CAN113 B329-1050 CAN113 B329-050F	10 61 100 100+	N=161 Rec=1.8'/1.8' Time: 1638
4211	52	TD=51.8'					
4210	53						Grout borehole from 51.8' to surface, grout mixture: 8 bags portland cement, 1 bag bentonite
4209	54						
4208	55						
4207	56						
4206	57						
4205	58						
4204	59						

HTW DRILLING LOG

HOLE NO.	113-30
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 7 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Wernver
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 1/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon wih s.s. liners
8. HOLE LOCATION	N 1550, E 550
9. SURFACE ELEVATION	4262.1
10. DATE STARTED	07/21/95
11. DATE COMPLETED	07/22/95
12. OVERBURDEN THICKNESS	52'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	0
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	52.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	N/A	N/A	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
7	7	7	7	7	7	2	1	1	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4262		FILL (SM) - Silty Sand, dry, brown, fine grained, with white spots (caliche), calcareous	PID = 0.0 ppm				PID readings recorded as above background Core run 1, 0-4.5' Rec = 3.5'/4.5'
4261	1						
4260	2		PID = 0.0 ppm				
4259	3	FILL (SM) - Silty Sand, dry, dark brown, fine grained, calcareous, woody debris, partially burned					
4258	4						Core run 2, 4.5-9.5' Rec = 2.8'/5.0'
	5						

HTW DRILLING LOG

HOLE NO. 113-30

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 2 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4257		FILL (CL) - Silty Sandy Clay, moist, brown, calcareous, woody debris, partially burned, charcoal, plastic and one piece of metal	PID = 0.0 ppm				
4256	6						
			PID = 0.0 ppm				
4255	7						
4254	8						
4253	9	(SM) - Silty Sand, dry, pink-orange, fine-grained, calcareous					Base of cell at 8.7'
4252	10	(SM) - Silty Clayey Sand, slightly moist, pink to red, fine grained, mottled with white streaks in lower 1', calcareous, (no trash)	PID = 0.0 ppm				Core run 3, 9.5-14.5' Rec = 5.0'/5.0'
4251	11						
4250	12						
4249	13						
	14						

HTW DRILLING LOG

HOLE NO. 113-30

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 3 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4248							
4247	15	(SM) - Silty Clayey Sand, dense, dry, red, fine-grained, calcareous, and caliche nodules white, up to 1" diameter	PID = 0.0 ppm		CAN113 B330-1014 (COE #045)	11 27	N = 60 Rec = 2.0'/2.0' Time: 1740
4246	16					23 34	
4245	17						
4244	18						
4243	19						
4242	20	(SM) - Silty Sand, slightly Clayey, very dense, dry, light orange, calcareous, caliche, tan-white	PID = 4.0 ppm		CAN113 B330-1020	33 85	N = 185 + Rec = 1.2'/1.3' Time: 1752
4241	21					100 +	
4240	22						Split spoon refusal at 21.3'
	23						

HTW DRILLING LOG

HOLE NO. 113-30

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 4 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4239							
4238	24						
4237	25	(SM) - Silty Sand, dry, white to light pink-orange, fine grained, calcareous, with caliche nodules	PID = 0.1 ppm			18	Rec = 1.0'/1.3'
						63	
4236	26					100+	
							Split spoon refusal at 26.3'
4235	27						
4234	28						
4233	29						
4232	30	(SM) - Silty Sand, very dense, dry, light pink-orange, very fine grained, calcareous, and caliche nodules, white, up to 1" diameter	PID = 0.0 ppm		CAN113 B330-1030 CAN113 B330-0568 (Dup)	32	N = 147 Rec = 2.0'/2.0' Time: 0820
						67	
4231	31					80	
						90	
	32						

HTW DRILLING LOG

HOLE NO. 113-30

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 5 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4230							
4229	33						
4228	34						
4227	35	(SM) - Silty Sand, dry, light orange, fine grained, with caliche nodules up to 1/4" diameter, some medium size quartz grains	PID = 0.0 ppm			17	N = 73 Rec = 1.6'/2.0'
						42	
4226	36					31	
						24	
4225	37						
4224	38						
4223	39						
4222	40	(SM) - Silty Sand, slightly Clayey, dry, orange, fine grained, calcareous, with caliche nodules to 1/2", white	PID = 0.0 ppm		CAN113 B330-1040	19	N = 82 Rec = 2.0'/2.0' Time: 0856
	41					41	

HTW DRILLING LOG

HOLE NO.	113-30
PROJECT	Landfill No. 5 Phase 1 RFI
INSPECTOR	David K. Nicholson
SHEET	6 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4221						41	
						56	
4220	42						
4219	43						
4218	44						
4217	45	(SM) - Silty Sand, dry, pink, calcareous	PID = 0.0 ppm			16	N = 46 Rec = 2.0'/2.0'
		(SM) - Silty Sand, slightly moist, orange-red, fine grained, calcareous, with caliche nodules to 1 1/2" diameter, tan-white				21	
4216	46					25	
						25	
4215	47						
4214	48						
4213	49						
	50						

HTW DRILLING LOG

HOLE NO. 113-30

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: David K. Nicholson

SHEET 7 OF 7 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4212		(SM) - Silty Sand, dense, dry, light orange, very fine to fine grained, calcareous, with caliche nodules, white, up to 1/2"	PID = 0.0 ppm		CAN113 B330-1050 CAN113 B330-050G (MRD)	15 30 33 38	N = 63 Rec = 2.0'/2.0' Time: 0916
4211	51						
4210	52	TD = 52'					
4209	53						Borehole grouted to surface with cement/bentonite, 9 bags cement 1 bag bentonite
4208	54						
4207	55						
4206	56						
4205	57						
4204	58						
	59						

HTW DRILLING LOG

HOLE NO.	113-31
SHEET 1 OF 2 SHEETS	
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Russ Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 1/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 2 1/2" I.D. Calif. split spoon with s.s. liners
8. HOLE LOCATION	N1750, E1975
9. SURFACE ELEVATION	4265.0
10. DATE STARTED	07/20/95
11. DATE COMPLETED	07/20/95
12. OVERBURDEN THICKNESS	9.5'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	9.5'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			David K. Nicholson

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		(SM) - Silty Sand, dry, red-brown, fine grained, calcareous, with pink caliche nodules	PID = 0.0 ppm				PID readings recorded as above background Core run 1, 0-4.5'
4264	1	(SM) - Clayey Silty Sand, dry, red, fine grained, calcareous, no trash	PID = 0.0 ppm				Native material
4263	2						
4262	3						
4261	4						Core run 2, 4.5-9.5'
4260	5						

/CORPS-B/12-04-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-31

HTW DRILLING LOG

PROJECT	INSPECTOR	HOLE NO.
Landfill No. 5 Phase 1 RFI	David K. Nicholson	113-31
		SHEET 2 OF 2 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		Silty Sand, Clayey, dry, mottled, pinkish red, fine grained, calcareous, white, caliche nodules up to 1" diam., no trash, (native soil)	PID = 0.0 ppm				
4259	6						
4258	7						
4257	8						
4256	9						
		TD = 9.5'					Boring abandoned, (boring located 4' west of 113-07) because it did not penetrate a landfill cell used 2 bags cement, 1/4 bag bentonite
4255	10						
4254	11						
4253	12						
4252	13						
4251	14						

/CORPS-B/12-04-95

PROJECT: C3M11M Landfill No. 5 Phase 1 RFI

HOLE NO.: 113-31

HTW DRILLING LOG

HOLE NO.	113-32
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
SHEET 1 OF 4 SHEETS	
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w/ polybutyrate liners and 3' O.D. Calif. split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N1600, E1500
9. SURFACE ELEVATION	4261.1
10. DATE STARTED	07/31/95
11. DATE COMPLETED	07/31/95
12. OVERBURDEN THICKNESS	29.0'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	29.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
0	0	0	0	0	0	0	0	0	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4261			PID results reported above background				Core run 1, 0-4' Rec = 2.9'/4.0'
4260	1	FILL (ML) - Silt, trace Sand, medium stiff, dry, medium brown, rootlets, loose pebbles, no trash	PID = 0.0 ppm				
4259	2	FILL (SM) - Silty Sand, medium dense, dry, dark brown, very fine to fine grained, trace calcareous blebs, no trash, caliche nodules, amount increasing with depth					
4258	3	FILL (SP) - Sand, trace Silt, medium dense, dry, dark red-brown, medium grained interval within sand-caliche zone (3-3.5'), Sand, as above from 1.6-3'					
4257	4						Core run 2, 4-9' Rec = 1.4'/5.0'
	5						

HTW DRILLING LOG

HOLE NO. 113-32

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 4 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4256							
4255	6						
4254	7						
4253	8	FILL (SM) - Clayey Sand and Silt, medium dense, damp, medium brown, fine grained, trash plentiful including; piece of leather, plastic tubing, aluminum can, paper, plastic, burn material, trash between 7.6-8.6', becomes more sandy near base, no odor, caliche nodules between 8-9'	PID = 0.5 ppm				
4252	9						Core run 3, 9-14' Rec = 2.0'/5.0'
4251	10						
4250	11						
4249	12	FILL (SM) - Clayey Sand with Silt, medium dense to dense, moist, medium to dark brown, very fine to fine grained, top 6" (12-12.6'), dark brown to blackish stain, trash at 12.6' includes insulation, at 13.3-14' trash - plastic bag, insulation, paper, nail, in shoe - burn material, pop can, paper, very little soil, caliche nodule mixed in at 13-13.5'	PID = 2.0 ppm				
4248	13						
	14						

HTW DRILLING LOG

HOLE NO. 113-32

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 4 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4247							Core run 4, 14-19' Rec = 1.5'/5.0'
4246	15						
4245	16						
4244	17						
4243	18	FILL - Top 8" (17.5-18.2') trash includes; rags, cloth, metal, glass, odor, paper, plastic, stain in very small amount of soil	PID = 0.5 ppm				
		FILL (SM) - Silty Sand, medium dense, dry, medium reddish tan, very fine to fine grained, some medium grained, very calcareous in last 3", caliche nodule in shoe, no odor or trash	PID = 0.0 ppm				
4242	19		PID = 0.5 ppm				Core run 5, 19-24' Rec = 3.8'/5.0'
4241	20	FILL (SP) - Sand, trace Silt, medium dense, damp, stained brown to gray-brown, fine to medium grained, slight odor					
4240	21						
4239	22						
	23	FILL - at 22.5' Burn material (charcoal like) occurs in thin streaks within sand					

HTW DRILLING LOG

HOLE NO. 113-32

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 4 OF 4 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4238		(SM) - Silty Sand and Caliche, dense, dry, white, fine grained, some medium grained, well cemented					Base of cell at 23'
4237	24	(SM) - Silty Sand, medium dense, dry, buff, very fine to fine grained, some medium grained, very calcareous	PID = 0.0 ppm				Core run 6, 24-29' Rec = 4.8'/5.0'
4236	25						
4235	26						
4234	27	(SM) - Sand with clasts and spots of reddish orange colored sand, medium dense, dry, predominantly medium grained, very calcareous, subrounded grains					
4233	28						
4232	29	TD = 29'					Grout borehole with mixture of bentonite and portland cement Grout mixture: 1/4 bag bentonite, 3 bags portland cement
4231	30						
4230	31						
	32						

HTW DRILLING LOG

HOLE NO.	113-33
SHEET 1 OF 5 SHEETS	
1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w' polybutyrate liners and 3" O.D. Calif. split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N1400, E1500
9. SURFACE ELEVATION	4262.0
10. DATE STARTED	07/30/95
11. DATE COMPLETED	07/31/95
12. OVERBURDEN THICKNESS	34.0'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
14. TOTAL DEPTH OF HOLE	34.0'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
0	0	0	0	0	0	0	0	0	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL (ML) - Sandy Silt, medium dense, dry, light pinkish brown, rootlets in upper 0.4', fine grained quartz, very calcareous, no trash	PID = 0.0 ppm				Core run 1, 0-4' Rec = 4.0'/4.0'
4261	1						
		FILL (SM) - Silty Sand, medium dense, dry, dark brown, medium grained, with some fine grained, iron blebs (limonite?), calcareous					PID results reported above background
4260	2						
4259	3						
4258	4						Core run 2, 4-9' Rec = 1.5'/5.0'
	5						

HTW DRILLING LOG

HOLE NO. 113-33

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4256	6						
4255	7						
4254	8	FILL - Sand, as above, with possible discoloration/stain, at 8' trash occured, including burned paper, plastic bag, rag, interval moist to wet, mixed with Clayey Sand, with trace Silt, brown, fine grained	PID = 0.0 ppm				
4253	9						Core run 3, 9-14' Rec = 0.9'/5.0'
4252	10						
4251	11						
4250	12						
4249	13	FILL - Trash mixed with very little soil, includes plastic, paper, aluminum can, twine rope, moist, odor, at 13.5, Sand, trace Silt, medium dense, dry, buff to white, fine grained, with some	PID = 0.5 ppm				
	14						

HTW DRILLING LOG

HOLE NO. 113-33

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		medium grained, very calcareous, Sand, as above, becoming light red-brown					Core run 4, 14-17.5' Rec=3.4'/3.5'
4247	15						
4246	16						
4245	17	FILL - Trash included burn material as charcoal/ash, mixed with sand, medium dense, dry, brown, very fine grained, calcareous, well cemented, trash to 17.5'	PID=0.0 ppm				Core run 5, 17.5-19' Rec=1.5'/1.5'
4244	18	FILL - Sand, trace Silt, medium dense, dry, tan, very fine to fine grained, some medium grained, mottled, with grey color (possibly ash material)					
4243	19	FILL (SP) - Sand, trace Silt, medium dense, dry, buff, fine to medium grained, charcoal burn material present, grey color, mottled throughout					Core run 6, 19-24' Rec=5.0'/5.0'
4242	20	FILL - Sandy caliche, white, buff, mixed with other soil, blebs, clasts					
4241	21						
4240	22						
	23						

HTW DRILLING LOG

HOLE NO. 113-33

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 4 OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		FILL - Sand, as above, grey-brown, possibly ash					
4238	24						Core run 7, 24-29' Rec=4.0'/5.0'
4237	25	FILL (SP) - Sand, trace Silt, medium dense, dry, buff, predominantly fine grained, with some medium grained, subrounded, some well cemented nodules present, very calcareous, from 26.5-29' Sand color is gray-green					
4236	26						
4235	27						
4234	28						
4233	29						Core run 8, 29-34' Rec=3.4'/5.0'
4232	30						Base of cell at 30'
4231	31	(SP) - Sand, trace Silt, medium dense, dry, buff, fine grained, some medium grained, some medium grained, subrounded, calcareous, no trash, stain or discoloration, (native soil)					Native soil at 30.6' - may be base landfill as shallow as 29' (lost 1.6' of recovery)
	32						

HTW DRILLING LOG

HOLE NO. 113-33

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 5 OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4229	33						
4228	34	TD = 34′					Grout borehole on 7/31/95 with bentonite - portland cement mix Approximately 4 bags portland cement less than 1 bag bentonite
4227	35						
4226	36						
4225	37						
4224	38						
4223	39						
4222	40						
	41						

HTW DRILLING LOG

HOLE NO.	113-34
SHEET 1 OF 3 SHEETS	

1. COMPANY NAME	Woodward-Clyde Federal Services
2. DRILLING SUBCONTRACTOR	Layne Environmental Services
3. PROJECT	Landfill No. 5 Phase 1 RFI
4. LOCATION	CANNON AFB, New Mexico
5. NAME OF DRILLER	Dallas Werner
6. MANUFACTURER'S DESIGNATION OF DRILL	CME-75 HT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	CME-75 3 3/4" I.D. HSA; 5' CME core barrel w/polybutyrate liners and 3" O.D. Calif split spoon w/s.s. liners, 1" I.D. split spoon
8. HOLE LOCATION	N1500, E1425
9. SURFACE ELEVATION	4262.7
10. DATE STARTED	07/30/95
11. DATE COMPLETED	07/31/95
12. OVERBURDEN THICKNESS	14.5'
13. DEPTH DRILLED INTO ROCK	N/A
14. TOTAL DEPTH OF HOLE	14.5'
15. DEPTH GROUNDWATER ENCOUNTERED	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED	N/A
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	0	0	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	SVOC	PCB/PEST	TPH	DIOX/FURAN	TOC	HERB	21. TOTAL CORE REC.
0	0	0	0	0	0	0	0	0	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Grout			Jeanette B. DuBois

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4262	1	(SM) - Silty Sand, medium dense, dry, dark red-brown, very fine to fine grained, rootlets in upper 8", no trash, (native soil)	PID = 0.0 ppm				Core run 1, 0-4-5' Rec = 4.5'/4.5'
4261	2	Caliche, medium dense, dry, white to light pinkish tan, very well cemented, caliche zone, (native soil), no trash					Boring 11334 is 75' west of boring 1316 in which the base of the landfill was at 40'
4260	3						
4259	4						
4258	5						Core run 2, 4.5-9.5' Rec = 4.5'/5.0'

HTW DRILLING LOG

HOLE NO. 113-34

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 2 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
4257	6	Caliche, to approximately 8'	PID = 0.0 ppm				
4256	7						
4255	8	(SP) - Sand, trace Silt, medium dense, dry, light reddish brown, very fine to fine grained, trace medium grained, caliche nodules throughout, calcareous cement, (native soil), no trash	PID = 0.0 ppm				
4254	9						
4253	10	(SP) - Sand, trace Silt, medium dense, dry, light reddish brown, fine to medium grained, calcareous cement, (native soil), no trash					Core run 3, 9.5-14.5' Rec = 5.0'/5.0'
4252	11						
4251	12						
4250	13						
4249	14						

HTW DRILLING LOG

HOLE NO. 113-34

PROJECT: Landfill No. 5 Phase 1 RFI

INSPECTOR: Jeanette B. DuBois

SHEET 3 OF 3 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
		TD = 14.5′					
4248							
	15						Grout borehole on 7/31/95 with bentonite-portland cement mixture from 14.5′ to surface, used approximately 2 bags portland cement and less than 1 bag bentonite
4247							
	16						
4246							
	17						
4245							
	18						
4244							
	19						
4243							
	20						
4242							
	21						
4241							
	22						
4240							
	23						

Project No.: C3M11M-2D File: INDX1.XLS

LABORATORY TESTING ASSIGNMENT AND DATA SUMMARY

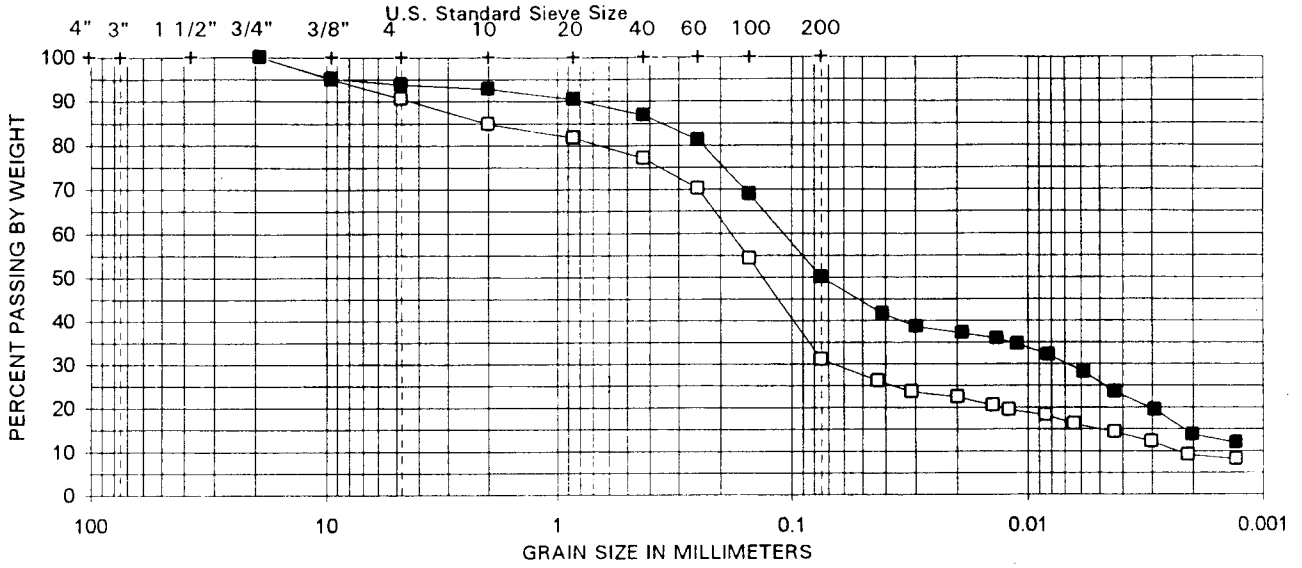
BORING NO.	SAMPLE NO.	DEPTH (ft)	IDENTIFICATION TESTS							REMARKS
			WATER CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLAS. IND.	USCS SYMB. (1)	SIEVE MINUS NO. 200 (%)	HYDROMETER % MINUS 2 um (%)	
CAN113-B301-4034			10.8				SM	31.0	9	
CAN113-B303-4023			8.6				CL-SC	50.0	14	
CAN113-B304-4045			5.7				SM	17.1	6	
CAN113-B308-4020			8.1				SC	43.8	20	
CAN113-B309-4025			7.8				CL	53.6	27	
CAN113-B311-4045			4.8				SM	25.5	7	
CAN113-B313-4040			7.4				SM	18.8	4	
CAN113-B314-4067			6.1				SM	27.8	6	
CAN113-B317-4045			4.4				SM	26.1	7	
CAN113-B321-4057			7.0				SM	22.8	4	
CAN113-B323-4024			12.5				SC	39.1	12	
CAN113-B324-4058			8.0				SM	37.3	13	
CAN113-B325-4024			10.7				SM	38.3	9	
CAN113-B326-4055			5.9				SM	28.8	8	
CAN113-B327-4034			8.2				SC-SM	35.4	12	
CAN113-B328-4000			3.5				CL	52.6	22	
Note:	Cemented, material suspect to break-down.									

Note: (1) Plasticity of fines for USCS symbol based on visual observation unless Atterberg limits reported.

Prepared by: EK Reviewed by: DT Date: 8/10/95

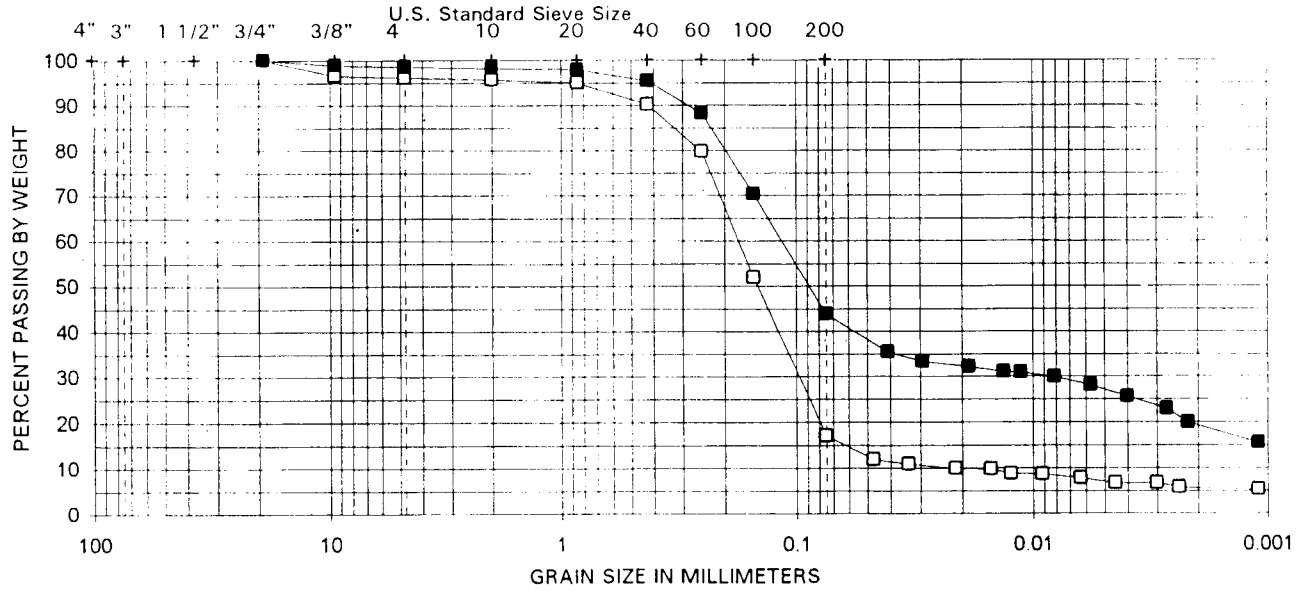
PARTICLE-SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



BORING	SAMPLE	DEPTH (FT)	SYMBOL	DESCRIPTION	w (%)	LL	PL
CAN113	B301-4034		□	SM, brown clayey silty m-f SAND, trace f. gravel and	10.8	---	---
				c. sand.			
CAN113	B303-4023		■	CL-SC, beige medium plastic sandy silty CLAY, trace	8.6	---	---
				f. gravel.			

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

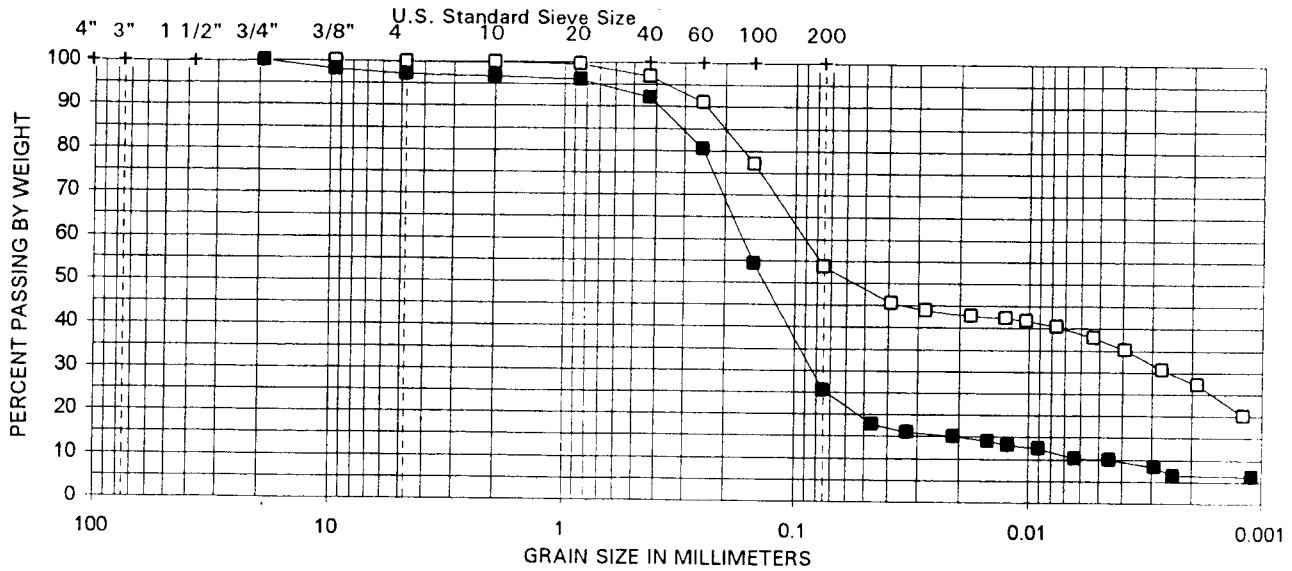


BORING	SAMPLE	DEPTH (FT)	SYMBOL	DESCRIPTION	w (%)	LL	PL
CAN113	B304-4045		□	SM, reddish-brown f. SAND, some silt, trace f. gravel	5.7	---	---
				and c-m sand.			
CAN113	B308-4020		■	SC, reddish-brown clayey f. SAND, trace f. gravel and	8.1	---	---
				c-m sand.			

File: SIEV1A.XLS Project No.: C3M11M-2D Plotted by: EK Reviewed by: 11 Date: 8/10/95

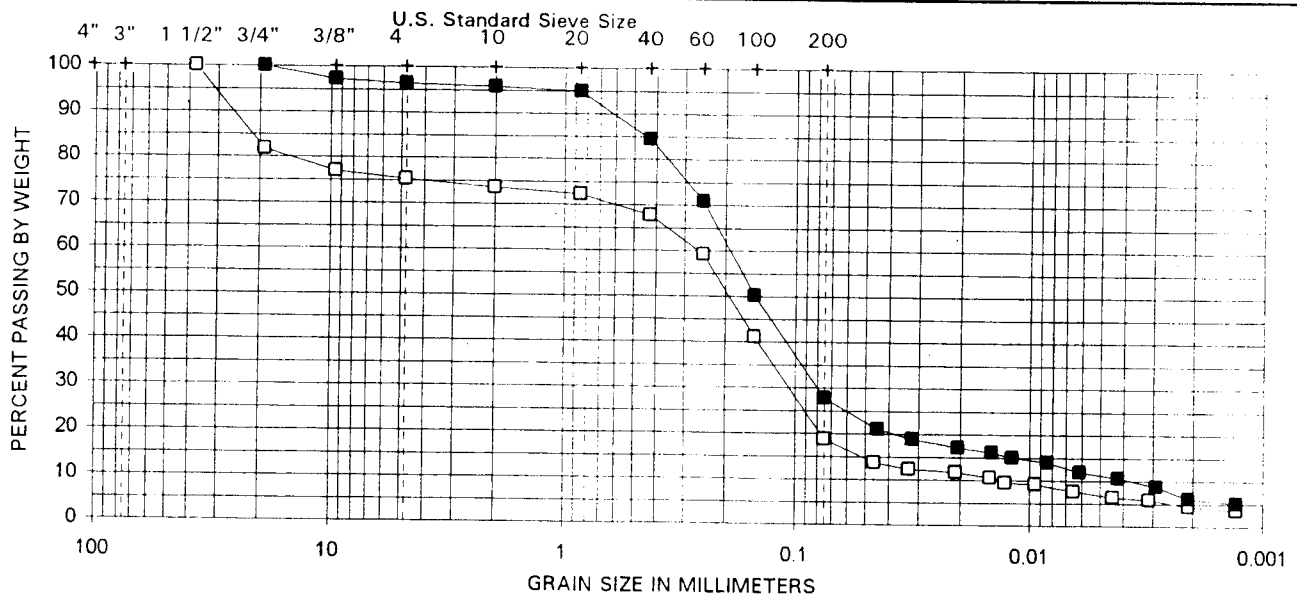
PARTICLE-SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



BORING	SAMPLE	DEPTH (FT)	SYMBOL	DESCRIPTION	w (%)	LL	PL
CAN113	B309-4025		□	CL, brown medium plastic f. sandy silty CLAY, trace	7.8	---	---
				m. sand.			
CAN113	B311-4045		■	SM, reddish-brown f. SAND, some silt and clay, trace	4.8	---	---
				f. gravel to m. sand.			

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

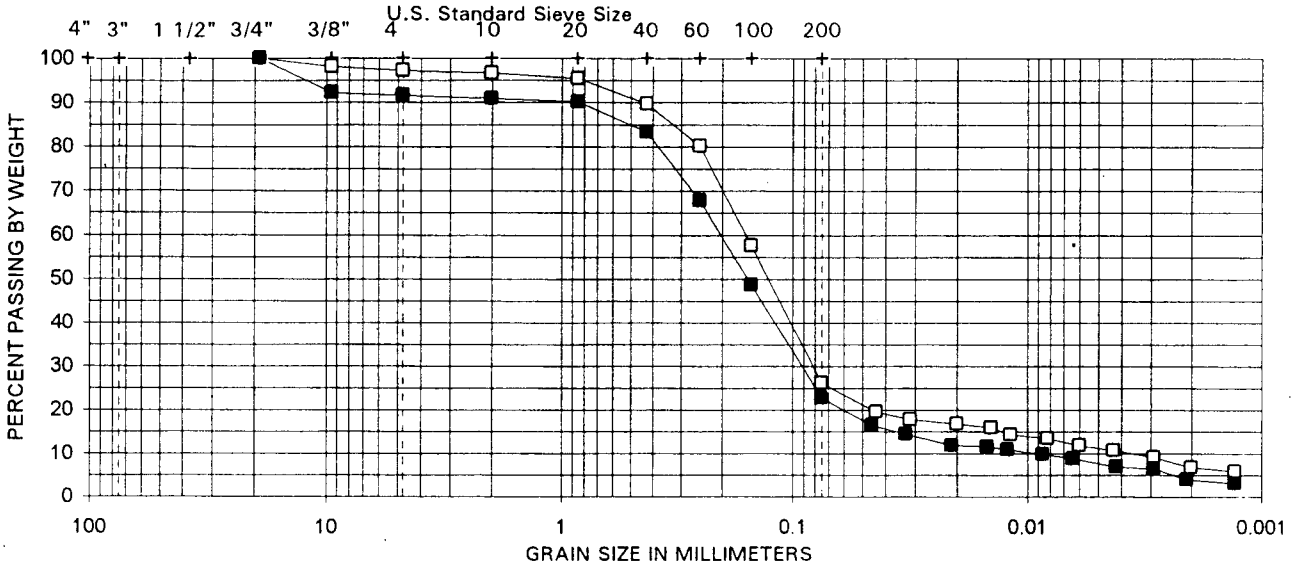


BORING	SAMPLE	DEPTH (FT)	SYMBOL	DESCRIPTION	w (%)	LL	PL
CAN113	B313-4040		□	SM, brown c-f SAND, some c-f gravel and silt.	7.4	---	---
CAN113	B314-4067		■	SM, brown m-f SAND, some clayey silt, trace f. gravel	6.1	---	---
				and c. sand.			

File: SIEV1B.XLS Project No.: C3M11M-2D Plotted by: EK Reviewed by: RJ Date: 8/10/95

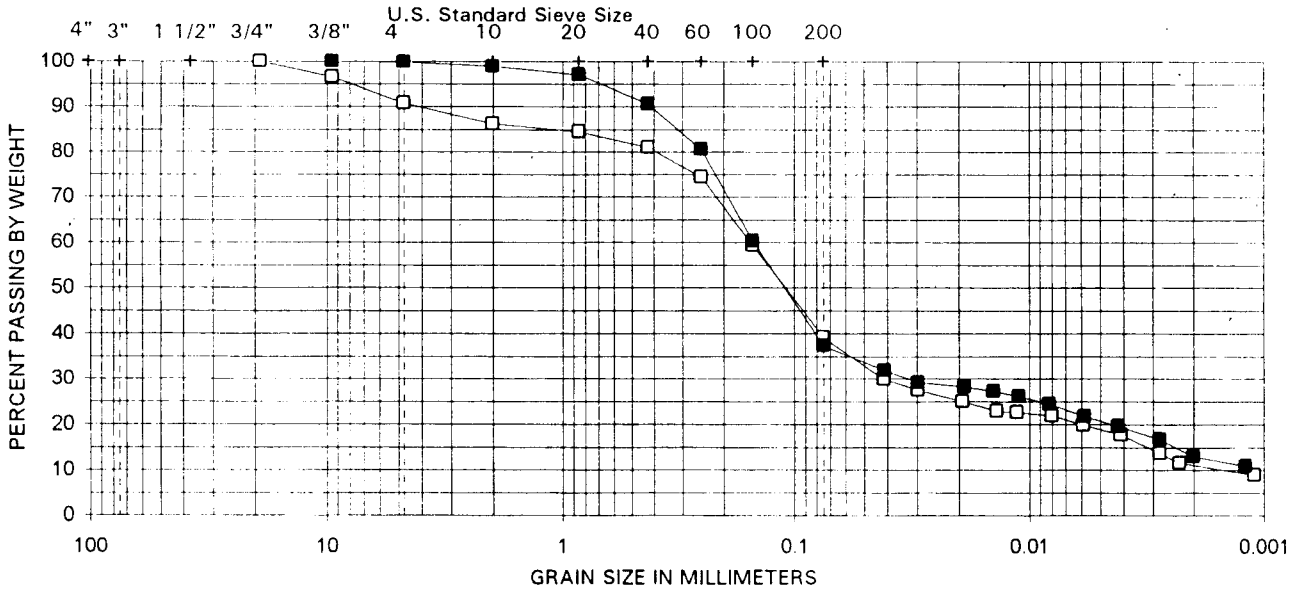
PARTICLE-SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



BORING	SAMPLE	DEPTH (FT)	SYMBOL	DESCRIPTION	w (%)	LL	PL
CAN113	B317-4045		□	SM, beige m-f SAND, some silt, trace f. gravel to c. sand.	4.4	---	---
CAN113	B321-4057		■	SM, beige m-f SAND, some silt, trace f. gravel to c. sand.	7.0	---	---

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

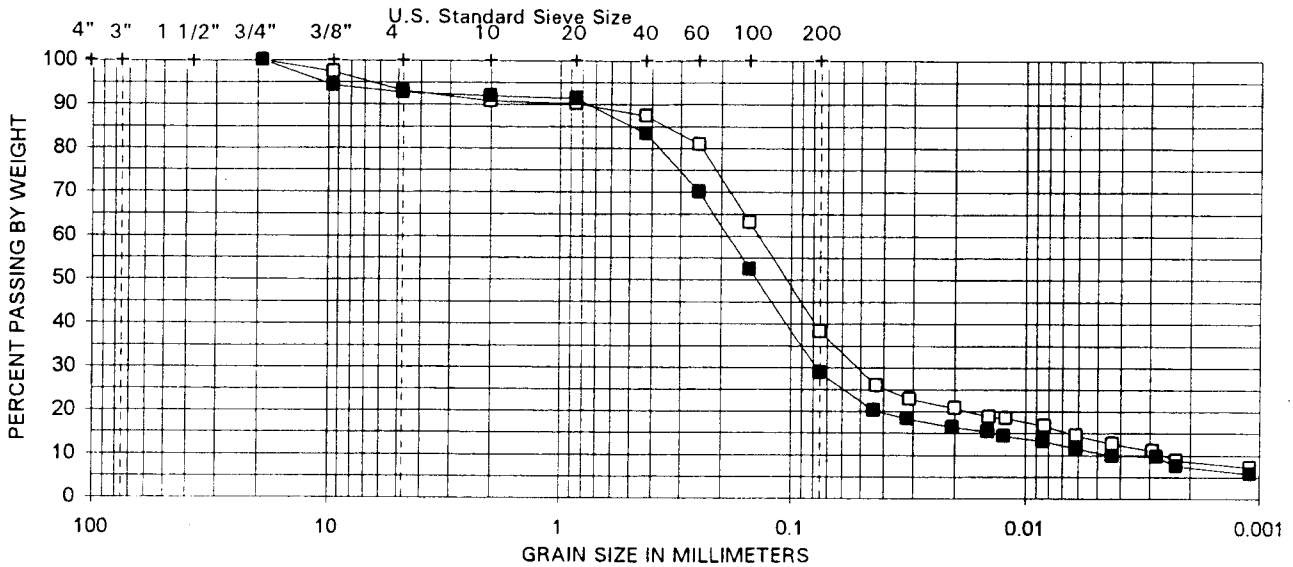


BORING	SAMPLE	DEPTH (FT)	SYMBOL	DESCRIPTION	w (%)	LL	PL
CAN113	B323-4024		□	SC, beige clayey c-f SAND, trace f. gravel.	12.5	---	---
CAN113	B324-4058		■	SM, beige clayey silty m-f SAND, trace c. sand.	8.0	---	---

File: SIEV1C.XLS Project No.: C3M11M-2D Plotted by: EK Reviewed by: AT Date: 8/10/95

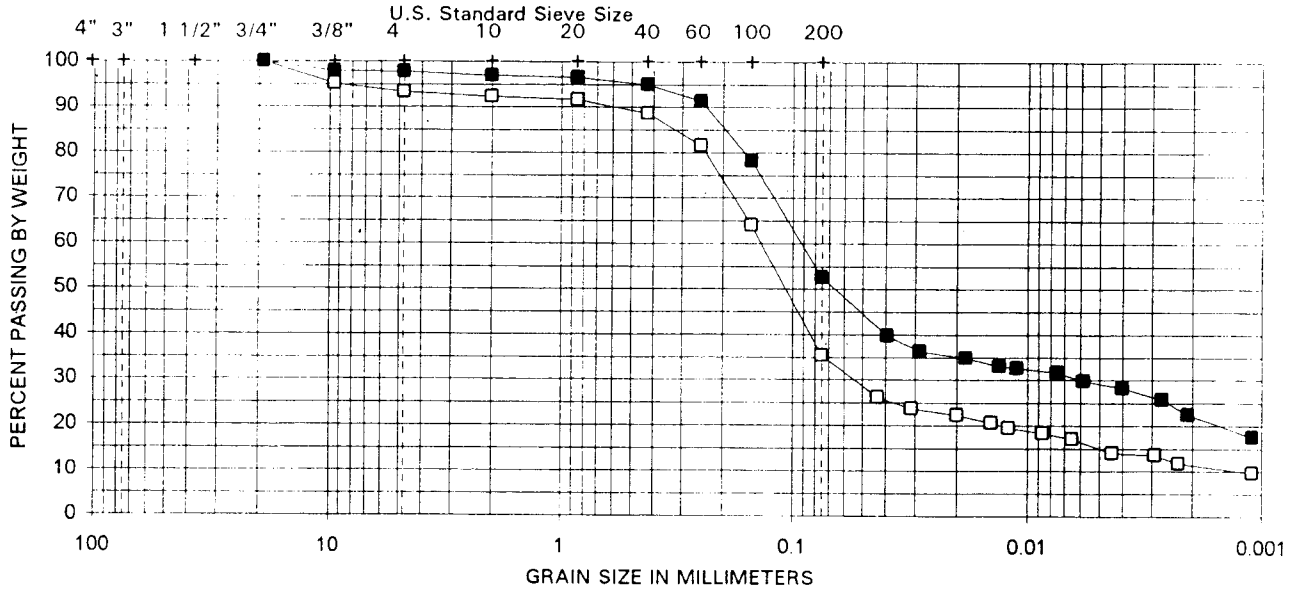
PARTICLE-SIZE DISTRIBUTION

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



BORING	SAMPLE	DEPTH (FT)	SYMBOL	DESCRIPTION	w (%)	LL	PL
CAN113	B325-4024		□	SM, brown silty f. SAND, trace f. gravel and c-m sand.	10.7	---	---
CAN113	B326-4055		■	SM, beige f. SAND, some silt, trace f. gravel and	5.9	---	---
				c-m sand.			

COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	



BORING	SAMPLE	DEPTH (FT)	SYMBOL	DESCRIPTION	w (%)	LL	PL
CAN113	B327-4034		□	SC-SM, beige clayey silty f. SAND, trace f. gravel to	8.2	---	---
				m. sand.			
CAN113	B328-4000		■	CL, brown medium plastic f. sandy silty CLAY, trace	3.5	---	---
				f. gravel to m. sand.			

File: SIEV1D.XLS Project No.: C3M11M-2D Plotted by: EK Reviewed by: 41 Date: 8/10/95

APPENDIX E
VALIDATED ANALYTICAL RESULTS

PREFACE TO APPENDIX E

The following table contains the validated analytical data for the field samples and decontamination water sample (CAN113-B301-0581) collected form Landfill No. 5, Cannon Air Force Base, Clovis, New Mexico. The data are presented in the table by chemical group as follows:

- Diox = Polychlorinated dibenzo dioxins/furans
- Herb = Chlorinated herbicides
- Met = Metals
- OPP = Organophosphorus Pesticides
- Pest/PCB = Pesticide/PCBs
- SVOC = Semivolatile Organics
- VOC = Volatile Organics
- Wetchem = Cyanide, Total Organic Carbon, Total Petroleum Hydrocarbons, Sulfide

Within each chemical group, sample results are listed by soil boring followed by depth (feet below ground surface).

As part of the data validation process, the following validation qualifiers were used:

U Non-detect - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J Estimated value - The analyte was positively identified; but the associated numerical value is the approximate concentration of the analyte in the sample.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ Estimated non-detect - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected. Due to significant QA/QC problems the analysis is invalid and provides no information as to whether the analyte is present or not.

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
DIOX	CAN113-B301-1063	0437640004SA	63-64.8	2,3,7,8-TCDD		U	ng/g	0.028
				HxCDDs (total)		U	ng/g	0.094
				HxCDFs (total)		U	ng/g	0.037
				PeCDDs (total)		U	ng/g	0.1
				PeCDFs (total)		U	ng/g	0.023
				TCDDs (total)		U	ng/g	0.028
				TCDFs (total)		U	ng/g	0.05
	CAN113-B306-1055	0437640001SA	55-57.5	2,3,7,8-TCDD		U	ng/g	0.02
				HxCDDs (total)		U	ng/g	0.044
				HxCDFs (total)		U	ng/g	0.03
				PeCDDs (total)		U	ng/g	0.042
				PeCDFs (total)		U	ng/g	0.019
				TCDDs (total)		U	ng/g	0.02
				TCDFs (total)		U	ng/g	0.04
	CAN113-B312-1065	0436990003SA	65-65.6	2,3,7,8-TCDD		U	ng/g	0.017
				HxCDDs (total)		U	ng/g	0.036
				HxCDFs (total)		U	ng/g	0.024
				PeCDDs (total)		U	ng/g	0.032
				PeCDFs (total)		U	ng/g	0.017
				TCDDs (total)		U	ng/g	0.017
				TCDFs (total)		U	ng/g	0.042
	CAN113-B313-1062	0437640003SA	62-64.5	2,3,7,8-TCDD		U	ng/g	0.014
				HxCDDs (total)		U	ng/g	0.058
				HxCDFs (total)		U	ng/g	0.036
				PeCDDs (total)		U	ng/g	0.037
				PeCDFs (total)		U	ng/g	0.018
				TCDDs (total)		U	ng/g	0.014
				TCDFs (total)		U	ng/g	0.046
	CAN113-B317-1053	0436990002SA	53-55	2,3,7,8-TCDD		U	ng/g	0.027
				HxCDDs (total)		U	ng/g	0.038
				HxCDFs (total)		U	ng/g	0.024
				PeCDDs (total)		U	ng/g	0.037
				PeCDFs (total)		U	ng/g	0.018
				TCDDs (total)		U	ng/g	0.027
				TCDFs (total)		U	ng/g	0.038
	CAN113-B318-1063	0436990004SA	63-63.8	2,3,7,8-TCDD		U	ng/g	0.016
				HxCDDs (total)		U	ng/g	0.029
				HxCDFs (total)		U	ng/g	0.022
				PeCDDs (total)		U	ng/g	0.024
				PeCDFs (total)		U	ng/g	0.021
				TCDDs (total)		U	ng/g	0.016
				TCDFs (total)		U	ng/g	0.052
	CAN113-B320-1052	0436990001SA	52-53	2,3,7,8-TCDD		U	ng/g	0.021
				HxCDDs (total)		U	ng/g	0.036
				HxCDFs (total)		U	ng/g	0.028
				PeCDDs (total)		U	ng/g	0.041
				PeCDFs (total)		U	ng/g	0.02
				TCDDs (total)		U	ng/g	0.021
				TCDFs (total)		U	ng/g	0.052

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
DIOX	CAN113-B321-1057	0436990005SA	57-58.8	2,3,7,8-TCDD		U	ng/g	0.019
				HxCDDs (total)		U	ng/g	0.057
				HxCDFs (total)		U	ng/g	0.025
				PeCDDs (total)		U	ng/g	0.038
				PeCDFs (total)		U	ng/g	0.019
				TCDDs (total)		U	ng/g	0.019
				TCDFs (total)		U	ng/g	0.041
	CAN113-B322-1056	0436340001SA	56.5-58.5	2,3,7,8-TCDD		U	ng/g	0.012
				HxCDDs (total)		U	ng/g	0.031
				HxCDFs (total)		U	ng/g	0.018
				PeCDDs (total)		U	ng/g	0.046
				PeCDFs (total)		U	ng/g	0.016
				TCDDs (total)		U	ng/g	0.012
				TCDFs (total)		U	ng/g	0.036
	CAN113-B323-1054	0436340003SA	54-55.1	2,3,7,8-TCDD		U	ng/g	0.018
				HxCDDs (total)		U	ng/g	0.039
				HxCDFs (total)		U	ng/g	0.022
				PeCDDs (total)		U	ng/g	0.051
				PeCDFs (total)		U	ng/g	0.016
				TCDDs (total)		U	ng/g	0.018
				TCDFs (total)		U	ng/g	[illegible]
	CAN113-B324-1059	0436990006SA	59-60	2,3,7,8-TCDD		U	ng/g	
				HxCDDs (total)		U	ng/g	0.047
				HxCDFs (total)		U	ng/g	0.026
				PeCDDs (total)		U	ng/g	0.034
				PeCDFs (total)		U	ng/g	0.018
				TCDDs (total)		U	ng/g	0.016
				TCDFs (total)		U	ng/g	0.047
	CAN113-B325-1060	0436340002SA	60-62	2,3,7,8-TCDD		U	ng/g	0.019
				HxCDDs (total)		U	ng/g	0.039
				HxCDFs (total)		U	ng/g	0.03
				PeCDDs (total)		U	ng/g	0.067
				PeCDFs (total)		U	ng/g	0.027
				TCDDs (total)		U	ng/g	0.019
				TCDFs (total)		U	ng/g	0.04
	CAN113-B326-1055	0436340004SA	55-56.5	2,3,7,8-TCDD		U	ng/g	0.019
				HxCDDs (total)		U	ng/g	0.047
				HxCDFs (total)		U	ng/g	0.029
				PeCDDs (total)		U	ng/g	0.057
				PeCDFs (total)		U	ng/g	0.02
				TCDDs (total)		U	ng/g	0.019
				TCDFs (total)		U	ng/g	0.046
	CAN113-B327-1057	0436340006SA	57.5-58.1	2,3,7,8-TCDD		U	ng/g	0.013
				HxCDDs (total)		U	ng/g	0.037
				HxCDFs (total)		U	ng/g	0.024
				PeCDDs (total)		U	ng/g	
				PeCDFs (total)		U	ng/g	[illegible]
				TCDDs (total)		U	ng/g	0.013
				TCDFs (total)		U	ng/g	0.032

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
DIOX	CAN113-B330-1050	0436340005SA	50-52	2,3,7,8-TCDD		U	ng/g	0.017
				HxCDDs (total)		U	ng/g	0.027
				HxCDFs (total)		U	ng/g	0.024
				PeCDDs (total)		U	ng/g	0.048
				PeCDFs (total)		U	ng/g	0.024
				TCDDs (total)		U	ng/g	0.017
				TCDFs (total)		U	ng/g	0.03
HERB	CAN113-B301-0581	0437820014SA	-	2,4,5-T		U	ug/L	0.5
				2,4,5-TP (Silvex)		U	ug/L	0.5
				2,4-D		U	ug/L	2
				2,4-DB		U	ug/L	5
				Dalapon		U	ug/L	5
				Dicamba		U	ug/L	0.5
				Dichlorprop		U	ug/L	1
				Dinoseb		U	ug/L	1
				MCPA		U	ug/L	250
				MCPP		U	ug/L	250
	CAN113-B301-1028	0437820002SA	28-30	2,4,5-T		UJ	ug/kg	4.4
				2,4,5-TP (Silvex)		UJ	ug/kg	3.7
				2,4-D		UJ	ug/kg	26
				2,4-DB		UJ	ug/kg	110
				Dalapon		UJ	ug/kg	110
				Dicamba		UJ	ug/kg	11
				Dichlorprop		UJ	ug/kg	22
				Dinoseb		UJ	ug/kg	22
				MCPA		UJ	ug/kg	5500
				MCPP		UJ	ug/kg	5500
	CAN113-B301-1063	0437820006SA	63-64.8	2,4,5-T		UJ	ug/kg	4.3
				2,4,5-TP (Silvex)		UJ	ug/kg	3.7
				2,4-D		UJ	ug/kg	26
				2,4-DB		UJ	ug/kg	110
				Dalapon		UJ	ug/kg	110
				Dicamba		UJ	ug/kg	11
				Dichlorprop		UJ	ug/kg	22
				Dinoseb		UJ	ug/kg	22
				MCPA		UJ	ug/kg	5400
				MCPP		UJ	ug/kg	5400
	CAN113-B302-1014	0437820007SA	14-16	2,4,5-T		U	ug/kg	4.6
				2,4,5-TP (Silvex)		U	ug/kg	3.9
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	23
				Dinoseb		U	ug/kg	23
				MCPA		U	ug/kg	5700
				MCPP		U	ug/kg	5700
	CAN113-B302-1050	0437820011SA	49-51	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B302-1050	0437820011SA	49-51	Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B303-1023	0437630001SA	23-25	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B303-1058	0437630005SA	58-59.9	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.5
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B304-1020	0435620007SA	20-22	2,4,5-T		U	ug/kg	[illegible]
				2,4,5-TP (Silvex)		U	ug/kg	
				2,4-D		U	ug/kg	[illegible]
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B304-1055	0435620011SA	55-57	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B305-1024	0435620001SA	24.5-26.5	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	
	CAN113-B305-1059	0435620005SA	59.5-60.8	2,4,5-T		U	ug/kg	-
				2,4,5-TP (Silvex)		U	ug/kg	3.5
				2,4-D		U	ug/kg	25

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B305-1059	0435620005SA	59.5-60.8	2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B306-1020	0437630012SA	20-21.9	2,4,5-T		U	ug/kg	4.5
				2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	23
				Dinoseb		U	ug/kg	23
				MCPA		U	ug/kg	5700
				MCPP		U	ug/kg	5700
	CAN113-B306-1055	0437630016SA	55-57.5	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B307-1024	0436080002SA	24-26	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B307-1059	0436080006SA	59-60.9	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B308-1020	0436080008SA	20-22	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5400

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B308-1020	0436080008SA	20-22	MCPP		U	ug/kg	5400
	CAN113-B308-1055	0436080013SA	55-57	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B309-1018	0437350006SA	18-20	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	5500
	CAN113-B309-1053	0437350011SA	53-54.3	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	[illegible]
				Dalapon		U	ug/kg	[illegible]
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B310-1029	0435300003SA	29.5-31	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	5500
	CAN113-B310-1064	0435300007SA	66-65	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.5
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B311-1031	0435300008SA	31-33	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	[illegible]
				2,4-D		U	ug/kg	[illegible]
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B311-1031	0435300008SA	31-33	Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	5500
	CAN113-B311-1065	0435620012SA	65-66.4	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B312-1027	0437200001SA	27.5-29.5	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B312-1065	0437200005SA	65-65.6	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B313-1027	0437630007SA	27-29	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	5500
	CAN113-B313-1062	0437630011SA	62-64.5	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B314-1032	0437200006SA	32-33.9	2,4,5-T		U	ug/kg	4.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B314-1032	0437200006SA	32-33.9	2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5600
				MCPP		U	ug/kg	5600
	CAN113-B314-1067	0437200010SA	67-68.5	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B315-1020	0437350001SA	20-22	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	5500
	CAN113-B315-1055	0437350005SA	55-55.8	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B316-1045	0436970008SA	45-46.9	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B316-1080	0436970013SA	80-81.5	2,4,5-T		U	ug/kg	4.1
				2,4,5-TP (Silvex)		U	ug/kg	3.5
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	
				Dalapon		U	ug/kg	
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B316-1080	0436970013SA	80-81.5	Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B317-1019	0436970014SA	19-20.3	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B317-1053	0436970018SA	53-55	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.5
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B318-1028	0436970019SA	28-29.9	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B318-1063	0437200018SA	63-63.8	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B319-1018	0437200020SA	18-20	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B319-1053.	0437200024SA	53-56.5	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B319-1053	0437200024SA	53-56.5	2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B320-1016	0436970001SA	16-17.5	2,4,5-T		U	ug/kg	4.5
				2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5600
				MCPP		U	ug/kg	5600
	CAN113-B320-1052	0436970005SA	52-53	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B321-1022	0437350012SA	22-22.9	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B321-1057	0437350016SA	57-58.8	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B322-1018	0436170001SA	18-20	2,4,5-T		U	ug/kg	4.1
				2,4,5-TP (Silvex)		U	ug/kg	3.5
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	
				Dichlorprop		U	ug/kg	
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5100

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B322-1018	0436170001SA	18-20	MCPP		U	ug/kg	5100
	CAN113-B322-1056	0436170005SA	56.5-58.5	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B323-1019	0436170013SA	19-20.5	2,4,5-T		U	ug/kg	4.5
				2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5600
				MCPP		U	ug/kg	5600
	CAN113-B323-1054	0436170017SA	54-55.1	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
	CAN113-B324-1024	0437200011SA	24-26	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	5500
	CAN113-B324-1059	0437200015SA	59-60	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B325-1060	0436170011SA	60-62	2,4,5-T		U	ug/kg	4.3
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B325-1060	0436170011SA	60-62	Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B326-1021	0436190001SA	21.5-23	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	5500
	CAN113-B326-1055	0436190006SA	55-56.5	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	
	CAN113-B327-1021	0436190013SA	21-23	2,4,5-T		U	ug/kg	[illegible]
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5400
				MCPP		U	ug/kg	5400
	CAN113-B327-1057	0436190017SA	57.5-58.1	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.5
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B328-1020	0436180007SA	20-21.5	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	[illegible]
				MCPA		U	ug/kg	[illegible]
				MCPP		U	ug/kg	5600
	CAN113-B328-1055	0436180011SA	55-57	2,4,5-T		U	ug/kg	4.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
HERB	CAN113-B328-1055	0436180011SA	55-57	2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	100
				Dalapon		U	ug/kg	100
				Dicamba		U	ug/kg	10
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5200
				MCPP		U	ug/kg	5200
	CAN113-B329-1014	0436180001SA	14-16	2,4,5-T		U	ug/kg	4.5
				2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	23
				Dinoseb		U	ug/kg	23
				MCPA		U	ug/kg	5600
				MCPP		U	ug/kg	5600
	CAN113-B329-1050	0436180005SA	50-51.8	2,4,5-T		U	ug/kg	4.4
				2,4,5-TP (Silvex)		U	ug/kg	3.7
				2,4-D		U	ug/kg	26
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5500
				MCPP		U	ug/kg	5500
	CAN113-B330-1014	0436190007SA	14.5-16.5	2,4,5-T		U	ug/kg	4.5
				2,4,5-TP (Silvex)		U	ug/kg	3.8
				2,4-D		U	ug/kg	27
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	22
				Dinoseb		U	ug/kg	22
				MCPA		U	ug/kg	5600
				MCPP		U	ug/kg	5600
	CAN113-B330-1050	0436190012SA	50-52	2,4,5-T		U	ug/kg	4.2
				2,4,5-TP (Silvex)		U	ug/kg	3.6
				2,4-D		U	ug/kg	25
				2,4-DB		U	ug/kg	110
				Dalapon		U	ug/kg	110
				Dicamba		U	ug/kg	11
				Dichlorprop		U	ug/kg	21
				Dinoseb		U	ug/kg	21
				MCPA		U	ug/kg	5300
				MCPP		U	ug/kg	5300
MET	CAN113-B301-0581	0437820014SA	-	Aluminum	0.15		mg/L	0.1
				Antimony		U	mg/L	0.06
				Barium	0.041		mg/L	0.01
				Beryllium		U	mg/L	0.002
				Cadmium		U	mg/L	0.005
				Calcium	33.3		mg/L	0.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B301-0581	0437820014SA	-	Chromium		U	mg/L	0.01
				Cobalt		U	mg/L	0.01
				Copper	0.0057	J	mg/L	0.02
				Iron	0.63		mg/L	0.1
				Magnesium	29.2		mg/L	0.2
				Manganese	0.0072	J	mg/L	0.01
				Nickel		U	mg/L	0.04
				Potassium	7		mg/L	5
				Silver		U	mg/L	0.01
				Sodium	39.7		mg/L	5
				Tin		UJ	mg/L	0.1
				Vanadium	0.022		mg/L	0.01
				Zinc		U	mg/L	0.02
				Arsenic		U	mg/L	0.005
				Lead	0.0014	J	mg/L	0.005
				Mercury		U	mg/L	0.0002
				Selenium	0.0049	J	mg/L	0.01
				Thallium		U	mg/L	0.01
	CAN113-B301-1000	0437820001SA	0-.5	Aluminum	4090		mg/kg	10.2
				Antimony		R	mg/kg	
				Barium	205	J	mg/kg	1
				Beryllium	0.31		mg/kg	0.2
				Cadmium		U	mg/kg	0.51
				Calcium	64700		mg/kg	20.4
				Chromium	4.8		mg/kg	
				Cobalt	2	J	mg/kg	1
				Copper	3.3		mg/kg	2
				Iron	3420		mg/kg	10.2
				Magnesium	2080		mg/kg	20.4
				Manganese	85.4	J	mg/kg	1
				Nickel	6.2		mg/kg	4.1
				Potassium	1320		mg/kg	510
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	510
				Vanadium	12.2		mg/kg	1
				Zinc	9.8		mg/kg	2
				Arsenic	1.4		mg/kg	0.51
				Lead	4.7		mg/kg	0.51
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.19	J	mg/kg	1
	CAN113-B301-1001	0437820012SA		Aluminum	4430		mg/kg	10.9
				Antimony		R	mg/kg	
				Barium	236	J	mg/kg	1.1
				Beryllium	0.34		mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	88300		mg/kg	21.7
				Chromium	3.3		mg/kg	1.1
				Cobalt	2.1		mg/kg	1.1
				Copper	3.8		mg/kg	2.2
				Iron	3780		mg/kg	10.9
				Magnesium	2320		mg/kg	21.7
				Manganese	89.6	J	mg/kg	
				Nickel	5.2		mg/kg	
				Potassium	1160		mg/kg	543
				Silver		U	mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B301-1001	0437820012SA	0-.5	Sodium		U	mg/kg	543
				Vanadium	13.4		mg/kg	1.1
				Zinc	11.2		mg/kg	2.2
				Arsenic	1.6		mg/kg	0.54
				Lead	6.1		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.14	J	mg/kg	1.1
	CAN113-B301-1028	0437820002SA	28-30	Aluminum	2240		mg/kg	21.8
				Antimony		R	mg/kg	
				Barium	74	J	mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		UJ	mg/kg	1.1
				Calcium	167000		mg/kg	43.6
				Chromium	2.6		mg/kg	2.2
				Cobalt		U	mg/kg	2.2
				Copper	2.2	J	mg/kg	4.4
				Iron	1410		mg/kg	21.8
				Magnesium	2300		mg/kg	43.6
				Manganese	21.5	J	mg/kg	2.2
				Nickel	2.9	J	mg/kg	8.7
				Potassium	652	J	mg/kg	1090
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	7.9		mg/kg	2.2
				Zinc	6.6		mg/kg	4.4
				Arsenic	0.99		mg/kg	0.55
				Lead	2		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.15	J	mg/kg	1.1
	CAN113-B301-1034	0437820003SA	34-36	Aluminum	3070		mg/kg	22.1
				Antimony		R	mg/kg	
				Barium	98.7	J	mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		UJ	mg/kg	1.1
				Calcium	150000		mg/kg	44.2
				Chromium	1.8	J	mg/kg	2.2
				Cobalt		U	mg/kg	2.2
				Copper	2.4	J	mg/kg	4.4
				Iron	1830		mg/kg	22.1
				Magnesium	4150		mg/kg	44.2
				Manganese	29.3	J	mg/kg	2.2
				Nickel	4.9	J	mg/kg	8.8
				Potassium	686	J	mg/kg	1110
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1110
				Vanadium	18.3		mg/kg	2.2
				Zinc	7.4		mg/kg	4.4
				Arsenic	1.4		mg/kg	0.55
				Lead	2.2		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.15	J	mg/kg	1.1
	CAN113-B301-1045	0437820004SA	45-47	Aluminum	3220		mg/kg	10.8
				Antimony		R	mg/kg	

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B301-1045	0437820004SA	45-47	Barium	5050	J	mg/kg	1.1
				Beryllium	0.15	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	71300		mg/kg	21.5
				Chromium	2.2		mg/kg	1.1
				Cobalt	2.7	J	mg/kg	1.1
				Copper	1.1	J	mg/kg	2.2
				Iron	1780		mg/kg	10.8
				Magnesium	4890		mg/kg	21.5
				Manganese	81.3	J	mg/kg	1.1
				Nickel	3.3	J	mg/kg	4.3
				Potassium	779		mg/kg	538
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	538
				Vanadium	5.7		mg/kg	1.1
				Zinc	6		mg/kg	2.2
				Arsenic	0.82		mg/kg	0.54
				Lead	1.6		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.23	J	mg/kg	1.1
	CAN113-B301-1055	0437820005SA	55-56.9	Aluminum	2930		mg/kg	10.5
				Antimony		R	mg/kg	
				Barium	83.2	J	mg/kg	1.1
				Beryllium	0.12	J	mg/kg	
				Cadmium		U	mg/kg	[illegible]
				Calcium	30900		mg/kg	21.1
				Chromium	3.7		mg/kg	1.1
				Cobalt		UJ	mg/kg	1.1
				Copper	1.5	J	mg/kg	2.1
				Iron	1840		mg/kg	10.5
				Magnesium	4550		mg/kg	21.1
				Manganese	27.7	J	mg/kg	1.1
				Nickel	3.5	J	mg/kg	4.2
				Potassium	644		mg/kg	526
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	526
				Vanadium	5.7		mg/kg	1.1
				Zinc	6		mg/kg	2.1
				Arsenic	0.44	J	mg/kg	0.53
				Lead	1.3		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	0.53
	CAN113-B301-1063	0437820006SA	63-64.8	Aluminum	3200		mg/kg	10.8
				Antimony		R	mg/kg	
				Barium	119	J	mg/kg	1.1
				Beryllium	0.13	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	75000		mg/kg	21.6
				Chromium	5		mg/kg	1.1
				Cobalt	1.3	J	mg/kg	1.1
				Copper	63.6		mg/kg	
				Iron	2150		mg/kg	
				Magnesium	6280		mg/kg	21.6
				Manganese	37.7	J	mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B301-1063	0437820006SA	63-64.8	Nickel	3.7	J	mg/kg	4.3
				Potassium	580		mg/kg	541
				Silver	0.41	J	mg/kg	1.1
				Sodium		U	mg/kg	541
				Tin	10.7	J	mg/kg	10.8
				Vanadium	10.1		mg/kg	1.1
				Zinc	10.1		mg/kg	2.2
				Arsenic	0.65		mg/kg	0.54
				Lead	1.8		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.15	J	mg/kg	1.1
	CAN113-B302-1014	0437820007SA	14-16	Aluminum	4630		mg/kg	22.9
				Antimony		R	mg/kg	
				Barium	180	J	mg/kg	2.3
				Beryllium	0.33	J	mg/kg	0.46
				Cadmium		UJ	mg/kg	1.1
				Calcium	172000		mg/kg	45.8
				Chromium	2.8		mg/kg	2.3
				Cobalt		U	mg/kg	2.3
				Copper	3.3	J	mg/kg	4.6
				Iron	3530		mg/kg	22.9
				Magnesium	4970		mg/kg	45.8
				Manganese	46.3	J	mg/kg	2.3
				Nickel	6	J	mg/kg	9.2
				Potassium	1530		mg/kg	1140
				Silver		U	mg/kg	2.3
				Sodium		U	mg/kg	1140
				Vanadium	14.3		mg/kg	2.3
				Zinc	10.4		mg/kg	4.6
				Arsenic	1.4		mg/kg	0.57
				Lead	4.3		mg/kg	0.57
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.19	J	mg/kg	1.1
	CAN113-B302-1020	0437820008SA	20-22	Aluminum	11100		mg/kg	11.2
				Antimony		R	mg/kg	
				Barium	106	J	mg/kg	1.1
				Beryllium	0.41		mg/kg	0.22
				Cadmium		U	mg/kg	0.56
				Calcium	65200		mg/kg	22.3
				Chromium	7.2		mg/kg	1.1
				Cobalt	2.3	J	mg/kg	1.1
				Copper	3.7		mg/kg	2.2
				Iron	7060		mg/kg	11.2
				Magnesium	4150		mg/kg	22.3
				Manganese	53.8	J	mg/kg	1.1
				Nickel	8.5		mg/kg	4.5
				Potassium	2550		mg/kg	558
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	558
				Vanadium	13.9		mg/kg	1.1
				Zinc	18		mg/kg	2.2
				Arsenic	1.1		mg/kg	0.56
				Lead	3.5		mg/kg	0.56
				Mercury		U	mg/kg	0.11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B302-1020	0437820008SA	20-22	Selenium		UJ	mg/kg	1.1
				Thallium	0.17	J	mg/kg	1.1
	CAN113-B302-1030	0437820009SA	30-31.5	Aluminum	5560		mg/kg	22.2
				Antimony		R	mg/kg	
				Barium	88.2	J	mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		UJ	mg/kg	1.1
				Calcium	121000		mg/kg	44.3
				Chromium	3.9		mg/kg	2.2
				Cobalt		U	mg/kg	2.2
				Copper	2.1	J	mg/kg	4.4
				Iron	3430		mg/kg	22.2
				Magnesium	4480		mg/kg	44.3
				Manganese	35.8	J	mg/kg	2.2
				Nickel	6.4	J	mg/kg	8.9
				Potassium	977	J	mg/kg	1110
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1110
				Vanadium	12		mg/kg	2.2
				Zinc	10.8		mg/kg	4.4
				Arsenic	1		mg/kg	0.55
				Lead	1.9		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.12	J	mg/kg	
	CAN113-B302-1040	0437820010SA	40-41.8	Aluminum	4480		mg/kg	[illegible]
				Antimony		R	mg/kg	
				Barium	68.9	J	mg/kg	1.1
				Beryllium	0.18	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	50600		mg/kg	21.6
				Chromium	4.9		mg/kg	1.1
				Cobalt	1.3	J	mg/kg	1.1
				Copper	1.8	J	mg/kg	2.2
				Iron	2950		mg/kg	10.8
				Magnesium	3980		mg/kg	21.6
				Manganese	34.8	J	mg/kg	1.1
				Nickel	4.8		mg/kg	4.3
				Potassium	912		mg/kg	539
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	539
				Vanadium	14.8		mg/kg	1.1
				Zinc	8.9		mg/kg	2.2
				Arsenic	0.88		mg/kg	0.54
				Lead	1.9		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.16	J	mg/kg	1.1
	CAN113-B302-1050	0437820011SA	49-51	Aluminum	2480		mg/kg	10.5
				Antimony		R	mg/kg	
				Barium	22.4	J	mg/kg	1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	
				Calcium	22100		mg/kg	
				Chromium	1.5		mg/kg	1
				Cobalt		UJ	mg/kg	1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B302-1050	0437820011SA	49-51	Copper	0.98	J	mg/kg	2.1
				Iron	1600		mg/kg	10.5
				Magnesium	2950		mg/kg	21
				Manganese	28.8	J	mg/kg	1
				Nickel	2.3	J	mg/kg	4.2
				Potassium	689		mg/kg	524
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	524
				Tin		U	mg/kg	10.5
				Vanadium	4.8		mg/kg	1
				Zinc	5.6		mg/kg	2.1
				Arsenic	0.48	J	mg/kg	1
				Lead	1.5		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.18	J	mg/kg	0.52
	CAN113-B303-1023	0437630001SA	23-25	Aluminum	6910		mg/kg	52.5
				Antimony		U	mg/kg	31.5
				Barium	167		mg/kg	5.2
				Beryllium		U	mg/kg	1
				Cadmium		U	mg/kg	2.6
				Calcium	222000	J	mg/kg	105
				Chromium	5.5		mg/kg	5.2
				Cobalt		U	mg/kg	5.2
				Copper	3.9	J	mg/kg	10.5
				Iron	4890		mg/kg	52.5
				Magnesium	5210	J	mg/kg	105
				Manganese	52.7		mg/kg	5.2
				Nickel	22.4	J	mg/kg	21
				Potassium	1460	J	mg/kg	2620
				Silver		UJ	mg/kg	5.2
				Sodium		U	mg/kg	2620
				Vanadium	11.9		mg/kg	5.2
				Zinc	13.9		mg/kg	10.5
				Arsenic	1.4		mg/kg	0.52
				Lead	2.8		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.15	J	mg/kg	1
	CAN113-B303-1028	0437630002SA	28-30	Aluminum	5430		mg/kg	21.2
				Antimony		U	mg/kg	12.7
				Barium	104		mg/kg	2.1
				Beryllium		U	mg/kg	0.42
				Cadmium		U	mg/kg	1.1
				Calcium	177000	J	mg/kg	42.5
				Chromium	2.6		mg/kg	2.1
				Cobalt		U	mg/kg	2.1
				Copper	2.2	J	mg/kg	4.2
				Iron	3330		mg/kg	21.2
				Magnesium	3860	J	mg/kg	42.5
				Manganese	37.4		mg/kg	2.1
				Nickel	5.2	J	mg/kg	8.5
				Potassium	1160		mg/kg	1060
				Silver		UJ	mg/kg	2.1
				Sodium		U	mg/kg	1060
				Vanadium	14.7		mg/kg	2.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B303-1028	0437630002SA	28-30	Zinc	9.9		mg/kg	4.2
				Arsenic	1.1		mg/kg	0.53
				Lead	2.4		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B303-1040	0437630003SA	40-42	Aluminum	3970		mg/kg	10.7
				Antimony		U	mg/kg	6.4
				Barium	45.4		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	63200	J	mg/kg	21.4
				Chromium	3.1		mg/kg	1.1
				Cobalt	1.1		mg/kg	1.1
				Copper	1.1	J	mg/kg	2.1
				Iron	2360		mg/kg	10.7
				Magnesium	4200	J	mg/kg	21.4
				Manganese	25.1		mg/kg	1.1
				Nickel	3.9	J	mg/kg	4.3
				Potassium	753		mg/kg	534
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	534
				Vanadium	16.3		mg/kg	1.1
				Zinc	6.3		mg/kg	2.1
				Arsenic	0.9		mg/kg	
				Lead	2		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	2.1
				Thallium	0.16	J	mg/kg	1.1
	CAN113-B303-1050	0437630004SA	50-51.4	Aluminum	2040		mg/kg	10.3
				Antimony		U	mg/kg	6.2
				Barium	130		mg/kg	1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	68900	J	mg/kg	20.7
				Chromium	1.7		mg/kg	1
				Cobalt	0.73	J	mg/kg	1
				Copper	0.84	J	mg/kg	2.1
				Iron	1190		mg/kg	10.3
				Magnesium	4050	J	mg/kg	20.7
				Manganese	21.6		mg/kg	1
				Nickel	3.5	J	mg/kg	4.1
				Potassium	526		mg/kg	517
				Silver		UJ	mg/kg	1
				Sodium		U	mg/kg	517
				Vanadium	5		mg/kg	1
				Zinc	3.6		mg/kg	2.1
				Arsenic	0.58		mg/kg	0.52
				Lead	1.3		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	1
	CAN113-B303-1058	0437630005SA	58-59.9	Aluminum	2340		mg/kg	
				Antimony		U	mg/kg	
				Barium	25.3		mg/kg	1
				Beryllium		U	mg/kg	0.21

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B303-1058	0437630005SA	58-59.9	Cadmium		U	mg/kg	0.52
				Calcium	31300	J	mg/kg	20.8
				Chromium	1.8		mg/kg	1
				Cobalt	0.7	J	mg/kg	1
				Copper	0.56	J	mg/kg	2.1
				Iron	1430		mg/kg	10.4
				Magnesium	4120	J	mg/kg	20.8
				Manganese	25.5		mg/kg	1
				Nickel	2.7	J	mg/kg	4.2
				Potassium	518	J	mg/kg	520
				Silver		UJ	mg/kg	1
				Sodium		U	mg/kg	520
				Tin		U	mg/kg	10.4
				Vanadium	5.7		mg/kg	1
				Zinc	4.2		mg/kg	2.1
				Arsenic	0.27	J	mg/kg	0.52
				Lead	1.4		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	0.52
	CAN113-B304-1000	0435620006SA	0-.5	Aluminum	10100		mg/kg	10.7
				Antimony		R	mg/kg	
				Barium	146	J	mg/kg	1.1
				Beryllium	0.7		mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	30200		mg/kg	21.4
				Chromium	9.8		mg/kg	1.1
				Cobalt	5		mg/kg	1.1
				Copper	10		mg/kg	2.1
				Iron	9610		mg/kg	10.7
				Magnesium	2870		mg/kg	21.4
				Manganese	275	J	mg/kg	1.1
				Nickel	9.3		mg/kg	4.3
				Potassium	2970		mg/kg	535
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	535
				Vanadium	24		mg/kg	1.1
				Zinc	28.2		mg/kg	2.1
				Arsenic	2.9		mg/kg	1.1
				Lead	10		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	5.3
				Thallium		U	mg/kg	0.53
	CAN113-B304-1020	0435620007SA	20-22	Aluminum	4960		mg/kg	21.7
				Antimony	13	J	mg/kg	13
				Barium	92.4		mg/kg	2.2
				Beryllium	0.27	J	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	129000	J	mg/kg	43.4
				Chromium	6.2		mg/kg	2.2
				Cobalt		U	mg/kg	2.2
				Copper	2.8	J	mg/kg	4.3
				Iron	4340		mg/kg	21.7
				Magnesium	3060	J	mg/kg	43.4
				Manganese	34		mg/kg	2.2
				Nickel	10.4		mg/kg	8.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B304-1020	0435620007SA	20-22	Potassium	1330		mg/kg	1080
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1080
				Vanadium	16.4		mg/kg	2.2
				Zinc	9.5		mg/kg	4.3
				Arsenic	2.1		mg/kg	0.54
				Lead	3	J	mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	2.2
				Thallium	0.12	J	mg/kg	1.1
	CAN113-B304-1025	0435620008SA	25-27	Aluminum	4680		mg/kg	21.6
				Antimony	11.8	J	mg/kg	13
				Barium	134		mg/kg	2.2
				Beryllium	0.23	J	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	135000	J	mg/kg	43.3
				Chromium	3.8		mg/kg	2.2
				Cobalt		U	mg/kg	2.2
				Copper	2.2	J	mg/kg	4.3
				Iron	3580		mg/kg	21.6
				Magnesium	3380	J	mg/kg	43.3
				Manganese	45.3		mg/kg	2.2
				Nickel	7.2	J	mg/kg	8.7
				Potassium	970	J	mg/kg	1080
				Silver		U	mg/kg	
				Sodium	244	J	mg/kg	1080
				Vanadium	16		mg/kg	2.2
				Zinc	9.3		mg/kg	4.3
				Arsenic	1.8		mg/kg	0.54
				Lead	2.9	J	mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	2.2
	CAN113-B304-1035	0435620009SA	35-36.3	Aluminum	5080		mg/kg	22.9
				Antimony		UJ	mg/kg	13.7
				Barium	258		mg/kg	2.3
				Beryllium		U	mg/kg	0.46
				Cadmium		U	mg/kg	1.1
				Calcium	159000	J	mg/kg	45.8
				Chromium	4.9		mg/kg	2.3
				Cobalt		U	mg/kg	2.3
				Copper	3.4	J	mg/kg	4.6
				Iron	2830		mg/kg	22.9
				Magnesium	13800	J	mg/kg	45.8
				Manganese	32.5		mg/kg	2.3
				Nickel	7.8	J	mg/kg	9.2
				Potassium	770	J	mg/kg	1140
				Silver		U	mg/kg	2.3
				Sodium		U	mg/kg	1140
				Vanadium	17		mg/kg	2.3
				Zinc	7.7		mg/kg	4.6
				Arsenic	1.5		mg/kg	0.57
				Lead	2.2	J	mg/kg	
				Mercury		U	mg/kg	
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	5.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B304-1045	0435620010SA	45-47	Aluminum	4460		mg/kg	10.6
				Antimony		UJ	mg/kg	6.4
				Barium	175		mg/kg	1.1
				Beryllium	0.18	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	50100	J	mg/kg	21.3
				Chromium	2.7		mg/kg	1.1
				Cobalt	1.3		mg/kg	1.1
				Copper	1.7	J	mg/kg	2.1
				Iron	2930		mg/kg	10.6
				Magnesium	5580	J	mg/kg	21.3
				Manganese	33.5		mg/kg	1.1
				Nickel	2.6	J	mg/kg	4.3
				Potassium	1030		mg/kg	531
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	531
				Vanadium	6.6		mg/kg	1.1
				Zinc	7.6		mg/kg	2.1
				Arsenic	0.78		mg/kg	0.53
				Lead	2	J	mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B304-1055	0435620011SA	55-57	Aluminum	3980		mg/kg	10.7
				Antimony		UJ	mg/kg	6.4
				Barium	48.2		mg/kg	1.1
				Beryllium	0.17	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.54
				Calcium	54700		mg/kg	21.5
				Chromium	3		mg/kg	1.1
				Cobalt		U	mg/kg	1.1
				Copper	1.7	J	mg/kg	2.1
				Iron	2520		mg/kg	10.7
				Magnesium	7430		mg/kg	21.5
				Manganese	29		mg/kg	1.1
				Nickel	3.5	J	mg/kg	4.3
				Potassium	744		mg/kg	537
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	537
				Tin		U	mg/kg	10.7
				Vanadium	9.3		mg/kg	1.1
				Zinc	6.9		mg/kg	2.1
				Arsenic	0.59		mg/kg	0.54
				Lead	1.9		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.12	J	mg/kg	1.1
	CAN113-B305-1024	0435620001SA	24.5-26.5	Aluminum	3400		mg/kg	21.8
				Antimony		UJ	mg/kg	13.1
				Barium	194		mg/kg	2.2
				Beryllium	0.22	J	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	146000	J	mg/kg	43.6
				Chromium	9.9		mg/kg	2.2
				Cobalt	1.9	J	mg/kg	2.2
				Copper	5.3		mg/kg	4.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B305-1024	0435620001SA	24.5-26.5	Iron	4800		mg/kg	21.8
				Magnesium	3170	J	mg/kg	43.6
				Manganese	57		mg/kg	2.2
				Nickel	392		mg/kg	8.7
				Potassium	824	J	mg/kg	1090
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	13		mg/kg	2.2
				Zinc	46.7		mg/kg	4.4
				Arsenic	1.6		mg/kg	0.55
				Lead	3.5	J	mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B305-1029	0435620002SA	29.5-31.5	Aluminum	3280		mg/kg	21.8
				Antimony		UJ	mg/kg	13.1
				Barium	501		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	204000	J	mg/kg	43.6
				Chromium	4.8		mg/kg	2.2
				Cobalt	1.9	J	mg/kg	2.2
				Copper	2.7	J	mg/kg	4.4
				Iron	1930	J	mg/kg	21.8
				Magnesium	5930	J	mg/kg	
				Manganese	18.6		mg/kg	2.2
				Nickel	7.2	J	mg/kg	8.7
				Potassium	428	J	mg/kg	1090
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	16.5		mg/kg	2.2
				Zinc	6.5		mg/kg	4.4
				Arsenic	1		mg/kg	0.55
				Lead	1.4	J	mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B305-1039	0435620003SA	39.5-40.3	Aluminum	5640		mg/kg	21.6
				Antimony	11.2	J	mg/kg	12.9
				Barium	520		mg/kg	2.2
				Beryllium		U	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	144000	J	mg/kg	43.1
				Chromium	29.4		mg/kg	2.2
				Cobalt	1.8	J	mg/kg	2.2
				Copper	2.8	J	mg/kg	4.3
				Iron	3650		mg/kg	21.6
				Magnesium	8000	J	mg/kg	43.1
				Manganese	40.9		mg/kg	2.2
				Nickel	5.9	J	mg/kg	8.6
				Potassium	1030	J	mg/kg	1080
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	
				Vanadium	10.9		mg/kg	-
				Zinc	9.4		mg/kg	4.3
				Arsenic	1.2		mg/kg	0.54

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B305-1039	0435620003SA	39.5-40.3	Lead	1.8	J	mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	2.2
				Thallium		U	mg/kg	1.1
	CAN113-B305-1049	0435620004SA	49.5-51	Aluminum	3530		mg/kg	10.4
				Antimony		UJ	mg/kg	6.2
				Barium	47.5		mg/kg	1
				Beryllium	0.13	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	42300	J	mg/kg	20.7
				Chromium	5.1		mg/kg	1
				Cobalt	1.3		mg/kg	1
				Copper	1.9	J	mg/kg	2.1
				Iron	2630		mg/kg	10.4
				Magnesium	4240	J	mg/kg	20.7
				Manganese	35.4		mg/kg	1
				Nickel	4.1		mg/kg	4.1
				Potassium	868		mg/kg	518
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	518
				Vanadium	6.6		mg/kg	1
				Zinc	6.7		mg/kg	2.1
				Arsenic	0.59		mg/kg	0.52
				Lead	1.9	J	mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	1
	CAN113-B305-1059	0435620005SA	59.5-60.8	Aluminum	3420		mg/kg	10.4
				Antimony		UJ	mg/kg	6.2
				Barium	103		mg/kg	1
				Beryllium	0.14	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	51700		mg/kg	20.8
				Chromium	10.7		mg/kg	1
				Cobalt	1.4		mg/kg	1
				Copper	3		mg/kg	2.1
				Iron	2870		mg/kg	10.4
				Magnesium	5050		mg/kg	20.8
				Manganese	42.9		mg/kg	1
				Nickel	4.7		mg/kg	4.2
				Potassium	705		mg/kg	520
				Silver	1.1		mg/kg	1
				Sodium		U	mg/kg	520
				Tin		U	mg/kg	10.4
				Vanadium	9.2		mg/kg	1
				Zinc	7.4		mg/kg	2.1
				Arsenic	0.67		mg/kg	0.52
				Lead	2.5		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	2.1
				Thallium		R	mg/kg	
	CAN113-B306-1020	0437630012SA	20-21.9	Aluminum	5310	J	mg/kg	56.6
				Antimony		UJ	mg/kg	33.9
				Barium	177	J	mg/kg	5.7
				Beryllium		U	mg/kg	1.1
				Cadmium		U	mg/kg	2.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B306-1020	0437630012SA	20-21.9	Calcium	251000	J	mg/kg	113
				Chromium		U	mg/kg	5.7
				Cobalt		U	mg/kg	5.7
				Copper	27.5		mg/kg	11.3
				Iron	4420	J	mg/kg	56.6
				Magnesium	5940	J	mg/kg	113
				Manganese	29.5	J	mg/kg	5.7
				Nickel	10.7	J	mg/kg	22.6
				Potassium	1860	J	mg/kg	2830
				Silver		U	mg/kg	5.7
				Sodium		U	mg/kg	2830
				Vanadium	25.5		mg/kg	5.7
				Zinc	16.4		mg/kg	11.3
				Arsenic	2.8		mg/kg	0.57
				Lead	4.8		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.17	J	mg/kg	1.1
	CAN113-B306-1025	0437630013SA	25-27	Aluminum	6210	J	mg/kg	10.9
				Antimony		UJ	mg/kg	6.5
				Barium	141	J	mg/kg	1.1
				Beryllium	0.37		mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	33500	J	mg/kg	21.7
				Chromium	4.7		mg/kg	
				Cobalt	1.5		mg/kg	[illegible]
				Copper	4.5		mg/kg	2.2
				Iron	4650	J	mg/kg	10.9
				Magnesium	3070	J	mg/kg	21.7
				Manganese	83	J	mg/kg	1.1
				Nickel	6.3		mg/kg	4.3
				Potassium	1830		mg/kg	543
				Silver	0.35	J	mg/kg	1.1
				Sodium		U	mg/kg	543
				Vanadium	17.8		mg/kg	1.1
				Zinc	13.9		mg/kg	2.2
				Arsenic	2.4		mg/kg	0.54
				Lead	3.7		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.17	J	mg/kg	0.54
	CAN113-B306-1035	0437630014SA	35-37	Aluminum	5190	J	mg/kg	10.8
				Antimony		UJ	mg/kg	6.5
				Barium	15.8	J	mg/kg	1.1
				Beryllium	0.25		mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	37100	J	mg/kg	21.5
				Chromium	3.6		mg/kg	1.1
				Cobalt	1.1		mg/kg	1.1
				Copper	2.3		mg/kg	2.2
				Iron	3270	J	mg/kg	10.8
				Magnesium	2710	J	mg/kg	21.5
				Manganese	42.2	J	mg/kg	
				Nickel	4.1	J	mg/kg	[illegible]
				Potassium	1210		mg/kg	538
				Silver		U	mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B306-1035	0437630014SA	35-37	Sodium		U	mg/kg	538
				Vanadium	13.9		mg/kg	1.1
				Zinc	9		mg/kg	2.2
				Arsenic	2.2		mg/kg	0.54
				Lead	2.7		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.19	J	mg/kg	0.54
	CAN113-B306-1045	0437630015SA	45-47	Aluminum	3640	J	mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	58.4	J	mg/kg	1.1
				Beryllium	0.14	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	53900	J	mg/kg	21.1
				Chromium	6.4		mg/kg	1.1
				Cobalt	0.88	J	mg/kg	1.1
				Copper	2.5		mg/kg	2.1
				Iron	2420	J	mg/kg	10.5
				Magnesium	2540	J	mg/kg	21.1
				Manganese	30.8	J	mg/kg	1.1
				Nickel	4	J	mg/kg	4.2
				Potassium	799		mg/kg	526
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	526
				Vanadium	10		mg/kg	1.1
				Zinc	7.4		mg/kg	2.1
				Arsenic	1.8		mg/kg	0.53
				Lead	1.8		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.12	J	mg/kg	0.53
	CAN113-B306-1055	0437630016SA	55-57.5	Aluminum	2310	J	mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	58.8	J	mg/kg	1.1
				Beryllium	0.12	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	47900	J	mg/kg	21
				Chromium	11.4		mg/kg	1.1
				Cobalt		U	mg/kg	1.1
				Copper	2.4		mg/kg	2.1
				Iron	1680	J	mg/kg	10.5
				Magnesium	2520	J	mg/kg	21
				Manganese	26.7	J	mg/kg	1.1
				Nickel	3.2	J	mg/kg	4.2
				Potassium	564		mg/kg	526
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	526
				Tin		U	mg/kg	10.5
				Vanadium	7.9		mg/kg	1.1
				Zinc	5.4		mg/kg	2.1
				Arsenic	0.82		mg/kg	0.53
				Lead	1.5		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.23	J	mg/kg	0.53
	CAN113-B307-1000	0436080001SA	0-.5	Aluminum	7240		mg/kg	10.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B307-1000	0436080001SA	0-.5	Antimony		R	mg/kg	
				Barium	138	J	mg/kg	1
				Beryllium	0.44		mg/kg	0.21
				Cadmium		U	mg/kg	0.51
				Calcium	73200		mg/kg	20.6
				Chromium	6.4		mg/kg	1
				Cobalt	3.5		mg/kg	1
				Copper	5.7		mg/kg	2.1
				Iron	6600		mg/kg	10.3
				Magnesium	2070		mg/kg	20.6
				Manganese	113	J	mg/kg	1
				Nickel	7.5		mg/kg	4.1
				Potassium	1550		mg/kg	515
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	515
				Vanadium	16		mg/kg	1
				Zinc	17.7		mg/kg	2.1
				Arsenic	2.4		mg/kg	0.51
				Lead	6.9		mg/kg	1
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	2.1
	CAN113-B307-1024	0436080002SA	24-26	Aluminum	5110		mg/kg	10.8
				Antimony		U	mg/kg	0.5
				Barium	42.1	J	mg/kg	
				Beryllium	0.33		mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	22900		mg/kg	21.7
				Chromium	6		mg/kg	1.1
				Cobalt	2.3		mg/kg	1.1
				Copper	3.7		mg/kg	2.2
				Iron	4610		mg/kg	10.8
				Magnesium	2240		mg/kg	21.7
				Manganese	82.3	J	mg/kg	1.1
				Nickel	46.2		mg/kg	4.3
				Potassium	1420		mg/kg	542
				Silver		U	mg/kg	1.1
				Sodium	135	J	mg/kg	542
				Vanadium	12.1		mg/kg	1.1
				Zinc	23.4		mg/kg	2.2
				Arsenic	1.6		mg/kg	0.54
				Lead	3.9		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	0.54
				Thallium		UJ	mg/kg	1.1
	CAN113-B307-1029	0436080003SA	29-30.8	Aluminum	4610		mg/kg	22
				Antimony		U	mg/kg	13.2
				Barium	134	J	mg/kg	2.2
				Beryllium	0.24	J	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	158000		mg/kg	44
				Chromium	4.7		mg/kg	2.2
				Cobalt		U	mg/kg	
				Copper	3.2	J	mg/kg	
				Iron	3360		mg/kg	22
				Magnesium	3770		mg/kg	44

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B307-1029	0436080003SA	29-30.8	Manganese	37.5	J	mg/kg	2.2
				Nickel	6.7	J	mg/kg	8.8
				Potassium	830	J	mg/kg	1100
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1100
				Vanadium	9.4		mg/kg	2.2
				Zinc	9.1		mg/kg	4.4
				Arsenic	0.41	J	mg/kg	0.55
				Lead	3.3		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.22	J	mg/kg	2.2
	CAN113-B307-1039	0436080004SA	39-41	Aluminum	5440		mg/kg	10.9
				Antimony		U	mg/kg	6.5
				Barium	75.2	J	mg/kg	1.1
				Beryllium	0.25		mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	83800		mg/kg	21.8
				Chromium	7.8		mg/kg	1.1
				Cobalt	1.9		mg/kg	1.1
				Copper	2.6		mg/kg	2.2
				Iron	4190		mg/kg	10.9
				Magnesium	4430		mg/kg	21.8
				Manganese	53.4	J	mg/kg	1.1
				Nickel	4.9		mg/kg	4.4
				Potassium	980		mg/kg	544
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	544
				Vanadium	18.8		mg/kg	1.1
				Zinc	9.6		mg/kg	2.2
				Arsenic	1.4		mg/kg	0.54
				Lead	3		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	0.54
				Thallium		UJ	mg/kg	2.2
	CAN113-B307-1049	0436080005SA	49-51	Aluminum	3010		mg/kg	10.5
				Antimony		U	mg/kg	6.3
				Barium	75.1	J	mg/kg	1.1
				Beryllium	0.16	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	59900		mg/kg	21.1
				Chromium	5.7		mg/kg	1.1
				Cobalt		U	mg/kg	1.1
				Copper	2	J	mg/kg	2.1
				Iron	2630		mg/kg	10.5
				Magnesium	2500		mg/kg	21.1
				Manganese	27.6	J	mg/kg	1.1
				Nickel	3	J	mg/kg	4.2
				Potassium	799		mg/kg	527
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	527
				Vanadium	6.8		mg/kg	1.1
				Zinc	5.9		mg/kg	2.1
				Arsenic	1		mg/kg	0.53
				Lead	2.3		mg/kg	0.53
				Mercury		U	mg/kg	0.11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B307-1049	0436080005SA	49-51	Selenium		UJ	mg/kg	0.53
				Thallium		UJ	mg/kg	2.1
	CAN113-B307-1059	0436080006SA	59-60.9	Aluminum	2820		mg/kg	10.6
				Antimony		UJ	mg/kg	6.3
				Barium	82.9		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	46000		mg/kg	21.2
				Chromium	11.7		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	2.1		mg/kg	2.1
				Iron	2680		mg/kg	10.6
				Magnesium	3510		mg/kg	21.2
				Manganese	43.3		mg/kg	1.1
				Nickel	2.2	J	mg/kg	4.2
				Potassium	630		mg/kg	529
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	529
				Tin		U	mg/kg	10.6
				Vanadium	8.2		mg/kg	1.1
				Zinc	5.9		mg/kg	2.1
				Arsenic	0.49	J	mg/kg	0.53
				Lead	1.7		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	
				Thallium	0.11	J	mg/kg	[illegible]
	CAN113-B308-1020	0436080008SA	20-22	Aluminum	5070	J	mg/kg	10.9
				Antimony	5.8	J	mg/kg	6.5
				Barium	274	J	mg/kg	1.1
				Beryllium	0.37		mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	71800		mg/kg	21.8
				Chromium	5.8		mg/kg	1.1
				Cobalt	2.4		mg/kg	1.1
				Copper	3.8		mg/kg	2.2
				Iron	5050	J	mg/kg	10.9
				Magnesium	2810	J	mg/kg	21.8
				Manganese	82.3		mg/kg	1.1
				Nickel	7.4		mg/kg	4.4
				Potassium	1510		mg/kg	545
				Silver		UJ	mg/kg	1.1
				Sodium	218	J	mg/kg	545
				Vanadium	33.5		mg/kg	1.1
				Zinc	10.8		mg/kg	2.2
				Arsenic	3.7		mg/kg	0.54
				Lead	4.5		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.22	J	mg/kg	2.2
	CAN113-B308-1025	0436080009SA	25-27	Aluminum	4630	J	mg/kg	11.7
				Antimony		UJ	mg/kg	7
				Barium	96.3	J	mg/kg	1.2
				Beryllium	0.28		mg/kg	
				Cadmium		U	mg/kg	
				Calcium	77700		mg/kg	23.4
				Chromium	5.2		mg/kg	1.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B308-1025	0436080009SA	25-27	Cobalt	2.2		mg/kg	1.2
				Copper	2.8		mg/kg	2.3
				Iron	4070	J	mg/kg	11.7
				Magnesium	2710		mg/kg	23.4
				Manganese	54	J	mg/kg	1.2
				Nickel	7.1		mg/kg	4.7
				Potassium	1310		mg/kg	586
				Silver		UJ	mg/kg	1.2
				Sodium	159	J	mg/kg	586
				Vanadium	27.7		mg/kg	1.2
				Zinc	9		mg/kg	2.3
				Arsenic	3.3		mg/kg	0.59
				Lead	3.5		mg/kg	0.59
				Mercury		U	mg/kg	0.12
				Selenium		UJ	mg/kg	1.2
				Thallium		UJ	mg/kg	2.3
	CAN113-B308-1035	0436080011SA	35-35.9	Aluminum	4520	J	mg/kg	11.1
				Antimony		UJ	mg/kg	6.6
				Barium	147	J	mg/kg	1.1
				Beryllium	0.16	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.55
				Calcium	105000		mg/kg	22.1
				Chromium	3.6		mg/kg	1.1
				Cobalt	1.5		mg/kg	1.1
				Copper	1.8	J	mg/kg	2.2
				Iron	2770	J	mg/kg	11.1
				Magnesium	7570		mg/kg	22.1
				Manganese	29.8	J	mg/kg	1.1
				Nickel	4.3	J	mg/kg	4.4
				Potassium	759		mg/kg	553
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	553
				Vanadium	21.4		mg/kg	1.1
				Zinc	7.2		mg/kg	2.2
				Arsenic	1.2		mg/kg	0.55
				Lead	2		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.2
	CAN113-B308-1045	0436080012SA	45-47	Aluminum	4250	J	mg/kg	10.8
				Antimony		UJ	mg/kg	6.5
				Barium	285	J	mg/kg	1.1
				Beryllium	0.13	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	43100		mg/kg	21.6
				Chromium	4.1		mg/kg	1.1
				Cobalt	1.3		mg/kg	1.1
				Copper	2.3		mg/kg	2.2
				Iron	2530	J	mg/kg	10.8
				Magnesium	7230		mg/kg	21.6
				Manganese	30.6	J	mg/kg	1.1
				Nickel	5.4		mg/kg	4.3
				Potassium	975		mg/kg	539
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	539
				Vanadium	8		mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL	UNITS	DL
MET	CAN113-B308-1045	0436080012SA	45-47	Zinc	6.6		mg/kg	2.2
				Arsenic	0.83		mg/kg	0.54
				Lead	1.6		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.2
	CAN113-B308-1055	0436080013SA	55-57	Aluminum	3070		mg/kg	10.7
				Antimony		UJ	mg/kg	6.4
				Barium	38.2		mg/kg	1.1
				Beryllium	0.15	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	46500		mg/kg	21.3
				Chromium	2.6		mg/kg	1.1
				Cobalt	1.5		mg/kg	1.1
				Copper	1.3	J	mg/kg	2.1
				Iron	1940		mg/kg	10.7
				Magnesium	5510		mg/kg	21.3
				Manganese	38.2		mg/kg	1.1
				Nickel	3.5	J	mg/kg	4.3
				Potassium	680		mg/kg	533
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	533
				Tin		U	mg/kg	10.7
				Vanadium	6		mg/kg	1.1
				Zinc	5		mg/kg	
				Arsenic	0.66		mg/kg	0.53
				Lead	2		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		R	mg/kg	
	CAN113-B309-1018	0437350006SA	18-20	Aluminum	4450		mg/kg	21.8
				Antimony		U	mg/kg	13.1
				Barium	128		mg/kg	2.2
				Beryllium	0.32	J	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	152000	J	mg/kg	43.7
				Chromium	3.8		mg/kg	2.2
				Cobalt		U	mg/kg	2.2
				Copper	2.4	J	mg/kg	4.4
				Iron	3540		mg/kg	21.8
				Magnesium	3910	J	mg/kg	43.7
				Manganese	30.3		mg/kg	2.2
				Nickel	4.7	J	mg/kg	8.7
				Potassium	1060	J	mg/kg	1090
				Silver		UJ	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	9.9		mg/kg	2.2
				Zinc	8.4		mg/kg	4.4
				Arsenic	1.9		mg/kg	0.55
				Lead	2.8		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	
	CAN113-B309-1025	0437350007SA	25-26.5	Aluminum	3490		mg/kg	
				Antimony		U	mg/kg	12.9
				Barium	87.8		mg/kg	2.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B309-1025	0437350007SA	25-26.5	Beryllium		U	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	98400	J	mg/kg	42.9
				Chromium	3.1		mg/kg	2.1
				Cobalt		U	mg/kg	2.1
				Copper	2.2	J	mg/kg	4.3
				Iron	2530		mg/kg	21.5
				Magnesium	2440	J	mg/kg	42.9
				Manganese	31.4		mg/kg	2.1
				Nickel	5.7	J	mg/kg	8.6
				Potassium	701	J	mg/kg	1070
				Silver	0.61	J	mg/kg	2.1
				Sodium		U	mg/kg	1070
				Vanadium	8.1		mg/kg	2.1
				Zinc	6.5		mg/kg	4.3
				Arsenic	1.4		mg/kg	0.54
				Lead	6		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.17	J	mg/kg	0.54
	CAN113-B309-1035	0437350008SA	35-36.9	Aluminum	3440		mg/kg	21.5
				Antimony		U	mg/kg	12.9
				Barium	121		mg/kg	2.2
				Beryllium		U	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	114000	J	mg/kg	43.1
				Chromium	2.9		mg/kg	2.2
				Cobalt		U	mg/kg	2.2
				Copper		U	mg/kg	4.3
				Iron	2190		mg/kg	21.5
				Magnesium	3460	J	mg/kg	43.1
				Manganese	29.1		mg/kg	2.2
				Nickel	2.8	J	mg/kg	8.6
				Potassium	541	J	mg/kg	1080
				Silver		UJ	mg/kg	2.2
				Sodium		U	mg/kg	1080
				Vanadium	11		mg/kg	2.2
				Zinc	5.6		mg/kg	4.3
				Arsenic	1.5		mg/kg	0.54
				Lead	2.5		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.15	J	mg/kg	0.54
	CAN113-B309-1045	0437350010SA	45-47	Aluminum	2250		mg/kg	10.5
				Antimony		U	mg/kg	6.3
				Barium	240		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	49000	J	mg/kg	21
				Chromium	1.7		mg/kg	1.1
				Cobalt	0.84	J	mg/kg	1.1
				Copper	0.89	J	mg/kg	2.1
				Iron	1710		mg/kg	10.5
				Magnesium	2040	J	mg/kg	21
				Manganese	22.2		mg/kg	1.1
				Nickel	3.5	J	mg/kg	4.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B309-1045	0437350010SA	45-47	Potassium	553		mg/kg	526
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	526
				Vanadium	6.3		mg/kg	1.1
				Zinc	4.8		mg/kg	2.1
				Arsenic	0.44	J	mg/kg	0.53
				Lead	1.5		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.18	J	mg/kg	1.1
	CAN113-B309-1053	0437350011SA	53-54.3	Aluminum	3620		mg/kg	10.7
				Antimony		U	mg/kg	6.4
				Barium	48.2		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	96200	J	mg/kg	21.3
				Chromium	6.1		mg/kg	1.1
				Cobalt	1.5		mg/kg	1.1
				Copper	1.7	J	mg/kg	2.1
				Iron	2360		mg/kg	10.7
				Magnesium	4680	J	mg/kg	21.3
				Manganese	32.8		mg/kg	1.1
				Nickel	4.2	J	mg/kg	4.3
				Potassium	678		mg/kg	534
				Silver		UJ	mg/kg	
				Sodium		U	mg/kg	[illegible]
				Tin	56		mg/kg	10.7
				Vanadium	11.7		mg/kg	1.1
				Zinc	6.7		mg/kg	2.1
				Arsenic	0.57		mg/kg	0.53
				Lead	1.7		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.16	J	mg/kg	1.1
	CAN113-B310-1000	0435300001SA	0-.5	Aluminum	7260		mg/kg	10.4
				Antimony		R	mg/kg	
				Barium	169	J	mg/kg	1
				Beryllium	0.49		mg/kg	0.21
				Cadmium		UJ	mg/kg	0.52
				Calcium	44600		mg/kg	20.8
				Chromium	6.4		mg/kg	1
				Cobalt	3.5		mg/kg	1
				Copper	6.4		mg/kg	2.1
				Iron	6550		mg/kg	10.4
				Magnesium	2080		mg/kg	20.8
				Manganese	142	J	mg/kg	1
				Nickel	7.4		mg/kg	4.2
				Potassium	1700		mg/kg	520
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	520
				Vanadium	16.7		mg/kg	1
				Zinc	19.2		mg/kg	2.1
				Arsenic	1.9		mg/kg	
				Lead	7.3		mg/kg	
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	2.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B310-1000	0435300001SA	0-.5	Thallium		U	mg/kg	1
	CAN113-B310-1029	0435300003SA	29.5-31	Aluminum	4650		mg/kg	22
				Antimony		UJ	mg/kg	13.2
				Barium	110		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		UJ	mg/kg	1.1
				Calcium	130000	J	mg/kg	44.1
				Chromium	8		mg/kg	2.2
				Cobalt	2	J	mg/kg	2.2
				Copper	2.2	J	mg/kg	4.4
				Iron	3090		mg/kg	22
				Magnesium	4970	J	mg/kg	44.1
				Manganese	33.1		mg/kg	2.2
				Nickel	18.4		mg/kg	8.8
				Potassium	687	J	mg/kg	1100
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1100
				Vanadium	17.4		mg/kg	2.2
				Zinc	10.1		mg/kg	4.4
				Arsenic	0.78		mg/kg	0.55
				Lead	2	J	mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B310-1034	0435300004SA	34-35.3	Aluminum	5350		mg/kg	21
				Antimony		UJ	mg/kg	12.6
				Barium	595		mg/kg	2.1
				Beryllium		U	mg/kg	0.42
				Cadmium		UJ	mg/kg	1.1
				Calcium	149000	J	mg/kg	42
				Chromium	40.7		mg/kg	2.1
				Cobalt	2.5		mg/kg	2.1
				Copper	6.4		mg/kg	4.2
				Iron	9580		mg/kg	21
				Magnesium	7200	J	mg/kg	42
				Manganese	69.3		mg/kg	2.1
				Nickel	30.2		mg/kg	8.4
				Potassium	957	J	mg/kg	1050
				Silver		U	mg/kg	2.1
				Sodium		U	mg/kg	1050
				Vanadium	14.2		mg/kg	2.1
				Zinc	14.3		mg/kg	4.2
				Arsenic	1.3		mg/kg	0.53
				Lead	2	J	mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	5.3
				Thallium		U	mg/kg	2.1
	CAN113-B310-1044	0435300005SA	44-46	Aluminum	4310		mg/kg	10.4
				Antimony		UJ	mg/kg	6.2
				Barium	59.5		mg/kg	1
				Beryllium	0.16	J	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.52
				Calcium	58200	J	mg/kg	20.7
				Chromium	7		mg/kg	1
				Cobalt	1.1		mg/kg	1
				Copper	2	J	mg/kg	2.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B310-1044	0435300005SA	44-46	Iron	3140		mg/kg	10.4
				Magnesium	5370	J	mg/kg	20.7
				Manganese	37.4		mg/kg	1
				Nickel	4.1		mg/kg	4.1
				Potassium	966		mg/kg	518
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	518
				Vanadium	8.8		mg/kg	1
				Zinc	8.7		mg/kg	2.1
				Arsenic	0.78		mg/kg	0.52
				Lead	1.7	J	mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.1	J	mg/kg	1
	CAN113-B310-1054	0435300006SA	54-55	Aluminum	4030		mg/kg	10.2
				Antimony		UJ	mg/kg	6.1
				Barium	81		mg/kg	1
				Beryllium	0.14	J	mg/kg	0.2
				Cadmium		UJ	mg/kg	0.51
				Calcium	43200	J	mg/kg	20.4
				Chromium	6.8		mg/kg	1
				Cobalt	0.9	J	mg/kg	1
				Copper	1.9	J	mg/kg	2
				Iron	2910		mg/kg	10.2
				Magnesium	5570	J	mg/kg	
				Manganese	42.1		mg/kg	
				Nickel	4.5		mg/kg	4.1
				Potassium	832		mg/kg	511
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	511
				Vanadium	9.7		mg/kg	1
				Zinc	8.6		mg/kg	2
				Arsenic	0.71		mg/kg	0.51
				Lead	1.7	J	mg/kg	0.51
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	1
	CAN113-B310-1064	0435300007SA	66-65	Aluminum	3620		mg/kg	10.4
				Antimony		UJ	mg/kg	6.3
				Barium	70.3		mg/kg	1
				Beryllium	0.14	J	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.52
				Calcium	88500		mg/kg	20.9
				Chromium	30.7		mg/kg	1
				Cobalt	1.2		mg/kg	1
				Copper	3.3		mg/kg	2.1
				Iron	3240		mg/kg	10.4
				Magnesium	8060		mg/kg	20.9
				Manganese	47.6		mg/kg	1
				Nickel	5.2		mg/kg	4.2
				Potassium	600		mg/kg	521
				Silver	0.45	J	mg/kg	1
				Sodium		U	mg/kg	
				Tin		U	mg/kg	
				Vanadium	12		mg/kg	1
				Zinc	8.1		mg/kg	2.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B310-1064	0435300007SA	66-65	Arsenic	0.84		mg/kg	0.52
				Lead	1.8		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		R	mg/kg	
	CAN113-B311-1031	0435300008SA	31-33	Aluminum	5940		mg/kg	11
				Antimony		UJ	mg/kg	6.6
				Barium	132		mg/kg	1.1
				Beryllium	0.25		mg/kg	0.22
				Cadmium		UJ	mg/kg	0.55
				Calcium	81800	J	mg/kg	21.9
				Chromium	5.4		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	2	J	mg/kg	2.2
				Iron	3600		mg/kg	11
				Magnesium	6260	J	mg/kg	21.9
				Manganese	30.9		mg/kg	1.1
				Nickel	4.1	J	mg/kg	4.4
				Potassium	901		mg/kg	548
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	548
				Vanadium	24.5		mg/kg	1.1
				Zinc	10.3		mg/kg	2.2
				Arsenic	1.1		mg/kg	0.55
				Lead	2.7	J	mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	5.5
				Thallium		U	mg/kg	1.1
	CAN113-B311-1035	0435300009SA	35-35.8	Aluminum	7110		mg/kg	21.8
				Antimony		UJ	mg/kg	13.1
				Barium	512		mg/kg	2.2
				Beryllium	0.26	J	mg/kg	0.44
				Cadmium		UJ	mg/kg	1.1
				Calcium	120000	J	mg/kg	43.7
				Chromium	7.8		mg/kg	2.2
				Cobalt	2.2		mg/kg	2.2
				Copper	4.7		mg/kg	4.4
				Iron	5480		mg/kg	21.8
				Magnesium	8840	J	mg/kg	43.7
				Manganese	56.1		mg/kg	2.2
				Nickel	50.7		mg/kg	8.7
				Potassium	1120		mg/kg	1090
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	27.2		mg/kg	2.2
				Zinc	12.2		mg/kg	4.4
				Arsenic	1.3		mg/kg	0.55
				Lead	2.8	J	mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	5.5
				Thallium		U	mg/kg	1.1
	CAN113-B311-1045	0435300010SA	45-47	Aluminum	3520		mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	66.4		mg/kg	1
				Beryllium	0.12	J	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.52

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B311-1045	0435300010SA	45-47	Calcium	55200	J	mg/kg	21
				Chromium	2.8		mg/kg	1
				Cobalt	1.2		mg/kg	1
				Copper	1.4	J	mg/kg	2.1
				Iron	2460		mg/kg	10.5
				Magnesium	3850	J	mg/kg	21
				Manganese	27.5		mg/kg	1
				Nickel	3.5	J	mg/kg	4.2
				Potassium	877		mg/kg	524
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	524
				Vanadium	6.9		mg/kg	1
				Zinc	5.9		mg/kg	2.1
				Arsenic	0.88		mg/kg	0.52
				Lead	1.8	J	mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	1
	CAN113-B311-1055	0435300011SA	55-57	Aluminum	3740		mg/kg	10.4
				Antimony		UJ	mg/kg	6.2
				Barium	48.1		mg/kg	1
				Beryllium	0.12	J	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.52
				Calcium	30600	J	mg/kg	20.8
				Chromium	3.1		mg/kg	
				Cobalt	0.93	J	mg/kg	
				Copper	1.5	J	mg/kg	2.1
				Iron	2750		mg/kg	10.4
				Magnesium	4730	J	mg/kg	20.8
				Manganese	37		mg/kg	1
				Nickel	3.2	J	mg/kg	4.2
				Potassium	801		mg/kg	520
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	520
				Vanadium	8.3		mg/kg	1
				Zinc	6.8		mg/kg	2.1
				Arsenic	0.76		mg/kg	0.52
				Lead	2.3	J	mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	1
	CAN113-B311-1065	0435620012SA	65-66.4	Aluminum	4120		mg/kg	10.6
				Antimony		UJ	mg/kg	6.3
				Barium	193		mg/kg	1.1
				Beryllium	0.19	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	51500		mg/kg	21.1
				Chromium	5.1		mg/kg	1.1
				Cobalt	1.4		mg/kg	1.1
				Copper	2.2		mg/kg	2.1
				Iron	3060		mg/kg	10.6
				Magnesium	6370		mg/kg	21.1
				Manganese	43.7		mg/kg	
				Nickel	4.2		mg/kg	
				Potassium	712		mg/kg	528
				Silver		U	mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B311-1065	0435620012SA	65-66.4	Sodium		U	mg/kg	528
				Tin		U	mg/kg	10.6
				Vanadium	13.2		mg/kg	1.1
				Zinc	7.2		mg/kg	2.1
				Arsenic	0.6		mg/kg	0.53
				Lead	1.8		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	0.53
				Thallium		R	mg/kg	
	CAN113-B312-1027	0437200001SA	27.5-29.5	Aluminum	3920		mg/kg	21.5
				Antimony		R	mg/kg	
				Barium	249	J	mg/kg	2.2
				Beryllium		U	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	190000		mg/kg	43.1
				Chromium	1.6	J	mg/kg	2.2
				Cobalt		U	mg/kg	2.2
				Copper	1.7	J	mg/kg	4.3
				Iron	2540		mg/kg	21.5
				Magnesium	4870		mg/kg	43.1
				Manganese	26.9	J	mg/kg	2.2
				Nickel	3.8	J	mg/kg	8.6
				Potassium	643	J	mg/kg	1080
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1080
				Vanadium	14.9		mg/kg	2.2
				Zinc	7.5		mg/kg	4.3
				Arsenic	0.89		mg/kg	0.54
				Lead	2.5		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B312-1034	0437200002SA	34-36	Aluminum	3940		mg/kg	21.5
				Antimony		R	mg/kg	
				Barium	654	J	mg/kg	2.1
				Beryllium		U	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	179000		mg/kg	43
				Chromium		U	mg/kg	2.1
				Cobalt		U	mg/kg	2.1
				Copper	2.1	J	mg/kg	4.3
				Iron	2560		mg/kg	21.5
				Magnesium	7850		mg/kg	43
				Manganese	29.3	J	mg/kg	2.1
				Nickel	6	J	mg/kg	8.6
				Potassium	668	J	mg/kg	1070
				Silver		U	mg/kg	2.1
				Sodium		U	mg/kg	1070
				Vanadium	18.8		mg/kg	2.1
				Zinc	7.7		mg/kg	4.3
				Arsenic	1.3		mg/kg	0.54
				Lead	1.7		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B312-1045	0437200003SA	45-47	Aluminum	3960		mg/kg	10.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B312-1045	0437200003SA	45-47	Antimony	4.5	J	mg/kg	6.3
				Barium	441	J	mg/kg	1
				Beryllium	0.17	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	65400		mg/kg	20.9
				Chromium	2.6		mg/kg	1
				Cobalt	0.8	J	mg/kg	1
				Copper	2.3		mg/kg	2.1
				Iron	2430		mg/kg	10.4
				Magnesium	5940		mg/kg	20.9
				Manganese	28.6	J	mg/kg	1
				Nickel	4.8		mg/kg	4.2
				Potassium	952		mg/kg	522
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	522
				Vanadium	8.1		mg/kg	1
				Zinc	6.8		mg/kg	2.1
				Arsenic	0.71		mg/kg	0.52
				Lead	1.8		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.13	J	mg/kg	0.52
	CAN113-B312-1055	0437200004SA	55-57	Aluminum	3980		mg/kg	10.4
				Antimony		R	mg/kg	
				Barium	28.4	J	mg/kg	
				Beryllium	0.2	J	mg/kg	[illegible]
				Cadmium		U	mg/kg	0.52
				Calcium	19800		mg/kg	20.9
				Chromium	4.9		mg/kg	1
				Cobalt	1.6		mg/kg	1
				Copper	1.2	J	mg/kg	2.1
				Iron	3100		mg/kg	10.4
				Magnesium	5640		mg/kg	20.9
				Manganese	46.9	J	mg/kg	1
				Nickel	8.3		mg/kg	4.2
				Potassium	853		mg/kg	521
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	521
				Vanadium	9.1		mg/kg	1
				Zinc	7.4		mg/kg	2.1
				Arsenic	0.62		mg/kg	0.52
				Lead	2.2		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	0.52
	CAN113-B312-1065	0437200005SA	65-65.6	Aluminum	3530		mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	56.1		mg/kg	1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	69500		mg/kg	21
				Chromium	7.2		mg/kg	1
				Cobalt	1.3		mg/kg	
				Copper	2.6		mg/kg	
				Iron	2960		mg/kg	10.5
				Magnesium	6170		mg/kg	21

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B312-1065	0437200005SA	65-65.6	Manganese	48.8		mg/kg	1
				Nickel	4.9		mg/kg	4.2
				Potassium	652		mg/kg	525
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	525
				Tin		U	mg/kg	10.5
				Vanadium	12.6		mg/kg	1
				Zinc	6.3		mg/kg	2.1
				Arsenic	0.58		mg/kg	0.52
				Lead	1.9		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	0.52
	CAN113-B313-1000	0437630006SA	0-.5	Aluminum	5310		mg/kg	10.3
				Antimony		R	mg/kg	
				Barium	280	J	mg/kg	1
				Beryllium	0.44		mg/kg	0.21
				Cadmium		U	mg/kg	0.51
				Calcium	71900		mg/kg	20.6
				Chromium	4.2		mg/kg	1
				Cobalt	3		mg/kg	1
				Copper	4.5		mg/kg	2.1
				Iron	4190		mg/kg	10.3
				Magnesium	1890		mg/kg	20.6
				Manganese	112		mg/kg	1
				Nickel	6.2		mg/kg	4.1
				Potassium	1220		mg/kg	515
				Silver		U	mg/kg	1
				Sodium	3920		mg/kg	515
				Vanadium	13.7		mg/kg	1
				Zinc	11.6		mg/kg	2.1
				Arsenic	1.8		mg/kg	0.51
				Lead	5.3		mg/kg	0.51
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.12	J	mg/kg	1
	CAN113-B313-1027	0437630007SA	27-29	Aluminum	3520	J	mg/kg	10.9
				Antimony		UJ	mg/kg	6.6
				Barium	72	J	mg/kg	1.1
				Beryllium		U	mg/kg	0.22
				Cadmium		U	mg/kg	0.55
				Calcium	82100	J	mg/kg	21.8
				Chromium	2.7		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	1.3	J	mg/kg	2.2
				Iron	2030	J	mg/kg	10.9
				Magnesium	3570	J	mg/kg	21.8
				Manganese	31.8	J	mg/kg	1.1
				Nickel	3.6	J	mg/kg	4.4
				Potassium	758		mg/kg	546
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	546
				Vanadium	10.3		mg/kg	1.1
				Zinc	6		mg/kg	2.2
				Arsenic	0.6		mg/kg	0.55
				Lead	2.5		mg/kg	0.55

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B313-1027	0437630007SA	27-29	Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.19	J	mg/kg	1.1
	CAN113-B313-1032	0437630008SA	32-34	Aluminum	3690	J	mg/kg	11
				Antimony		UJ	mg/kg	6.6
				Barium	20.6	J	mg/kg	1.1
				Beryllium	0.26		mg/kg	0.22
				Cadmium		U	mg/kg	0.55
				Calcium	16100	J	mg/kg	21.9
				Chromium	2.9		mg/kg	1.1
				Cobalt	2		mg/kg	1.1
				Copper	2.6		mg/kg	2.2
				Iron	2900	J	mg/kg	11
				Magnesium	2880	J	mg/kg	21.9
				Manganese	65.4	J	mg/kg	1.1
				Nickel	5		mg/kg	4.4
				Potassium	1240		mg/kg	548
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	548
				Vanadium	18.2		mg/kg	1.1
				Zinc	7.2		mg/kg	2.2
				Arsenic	1.6		mg/kg	0.55
				Lead	2.8		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	
				Thallium	0.2	J	mg/kg	[illegible]
	CAN113-B313-1040	0437630009SA	40-42	Aluminum	6660	J	mg/kg	10.9
				Antimony		UJ	mg/kg	6.5
				Barium	93.2	J	mg/kg	1.1
				Beryllium	0.21	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	68100	J	mg/kg	21.7
				Chromium	5.4		mg/kg	1.1
				Cobalt	0.89	J	mg/kg	1.1
				Copper	3.2		mg/kg	2.2
				Iron	4010	J	mg/kg	10.9
				Magnesium	10600	J	mg/kg	21.7
				Manganese	39.7	J	mg/kg	1.1
				Nickel	5.2		mg/kg	4.3
				Potassium	1430		mg/kg	543
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	543
				Vanadium	13.8		mg/kg	1.1
				Zinc	10.3		mg/kg	2.2
				Arsenic	0.97		mg/kg	0.54
				Lead	2		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.14	J	mg/kg	1.1
	CAN113-B313-1050	0437630010SA	50-51.5	Aluminum	5270	J	mg/kg	10.7
				Antimony		UJ	mg/kg	6.4
				Barium	153	J	mg/kg	1.1
				Beryllium	0.16	J	mg/kg	
				Cadmium		U	mg/kg	
				Calcium	59200	J	mg/kg	21.4
				Chromium	9.9		mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B313-1050	0437630010SA	50-51.5	Cobalt	0.89	J	mg/kg	1.1
				Copper	2.7		mg/kg	2.1
				Iron	3720	J	mg/kg	10.7
				Magnesium	6970	J	mg/kg	21.4
				Manganese	40.6	J	mg/kg	1.1
				Nickel	6.2		mg/kg	4.3
				Potassium	1130		mg/kg	534
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	534
				Vanadium	12.3		mg/kg	1.1
				Zinc	8.8		mg/kg	2.1
				Arsenic	0.65		mg/kg	0.53
				Lead	1.9		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.12	J	mg/kg	1.1
	CAN113-B313-1062	0437630011SA	62-64.5	Aluminum	3610	J	mg/kg	10.6
				Antimony		UJ	mg/kg	6.4
				Barium	309	J	mg/kg	1.1
				Beryllium	0.13	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	28100	J	mg/kg	21.3
				Chromium	10.8		mg/kg	1.1
				Cobalt	1.1		mg/kg	1.1
				Copper	2.2		mg/kg	2.1
				Iron	3030	J	mg/kg	10.6
				Magnesium	3460	J	mg/kg	21.3
				Manganese	38.9	J	mg/kg	1.1
				Nickel	3	J	mg/kg	4.3
				Potassium	659		mg/kg	531
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	531
				Tin		U	mg/kg	10.6
				Vanadium	11.2		mg/kg	1.1
				Zinc	6.8		mg/kg	2.1
				Arsenic	0.92		mg/kg	0.53
				Lead	1		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	0.53
	CAN113-B314-1032	0437200006SA	32-33.9	Aluminum	4370		mg/kg	22.3
				Antimony		R	mg/kg	
				Barium	107	J	mg/kg	2.2
				Beryllium		U	mg/kg	0.45
				Cadmium		U	mg/kg	1.1
				Calcium	135000		mg/kg	44.6
				Chromium	6		mg/kg	2.2
				Cobalt	1.4	J	mg/kg	2.2
				Copper	1.6	J	mg/kg	4.5
				Iron	2430		mg/kg	22.3
				Magnesium	13200		mg/kg	44.6
				Manganese	25.5	J	mg/kg	2.2
				Nickel	7.8	J	mg/kg	8.9
				Potassium	570	J	mg/kg	1120
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1120

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B314-1032	0437200006SA	32-33.9	Vanadium	18.7		mg/kg	2.2
				Zinc	5.7		mg/kg	4.5
				Arsenic	0.61		mg/kg	0.56
				Lead	1.8		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B314-1038	0437200007SA	38-39.1	Aluminum	4870		mg/kg	22.4
				Antimony		R	mg/kg	
				Barium	121	J	mg/kg	2.2
				Beryllium		U	mg/kg	0.45
				Cadmium		U	mg/kg	1.1
				Calcium	124000		mg/kg	44.7
				Chromium	4.4		mg/kg	2.2
				Cobalt	1.4	J	mg/kg	2.2
				Copper	2.6	J	mg/kg	4.5
				Iron	2890		mg/kg	22.4
				Magnesium	14500		mg/kg	44.7
				Manganese	31.6	J	mg/kg	2.2
				Nickel	8	J	mg/kg	8.9
				Potassium	745	J	mg/kg	1120
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1120
				Vanadium	19.3		mg/kg	2.2
				Zinc	7		mg/kg	
				Arsenic	1.1		mg/kg	[illegible]
				Lead	3.1		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B314-1045	0437200008SA	45-47	Aluminum	3270		mg/kg	10.5
				Antimony		R	mg/kg	
				Barium	35.2	J	mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	50900		mg/kg	21
				Chromium	2.4		mg/kg	1.1
				Cobalt	0.74	J	mg/kg	1.1
				Copper	0.89	J	mg/kg	2.1
				Iron	2370		mg/kg	10.5
				Magnesium	4380		mg/kg	21
				Manganese	24.1	J	mg/kg	1.1
				Nickel	3.2	J	mg/kg	4.2
				Potassium	868		mg/kg	525
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	525
				Vanadium	7		mg/kg	1.1
				Zinc	5.5		mg/kg	2.1
				Arsenic	0.82		mg/kg	0.53
				Lead	2		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	
	CAN113-B314-1057	0437200009SA	57-60.5	Aluminum	3350		mg/kg	
				Antimony		R	mg/kg	
				Barium	55.9	J	mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B314-1057	0437200009SA	57-60.5	Beryllium		U	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	95300		mg/kg	21.5
				Chromium	6.9		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	1.8	J	mg/kg	2.2
				Iron	2720		mg/kg	10.8
				Magnesium	8180		mg/kg	21.5
				Manganese	34	J	mg/kg	1.1
				Nickel	5		mg/kg	4.3
				Potassium	582		mg/kg	538
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	538
				Vanadium	15		mg/kg	1.1
				Zinc	5.5		mg/kg	2.2
				Arsenic	0.67		mg/kg	0.54
				Lead	2		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	0.54
	CAN113-B314-1067	0437200010SA	67-68.5	Aluminum	2960		mg/kg	10.6
				Antimony		R	mg/kg	
				Barium	59.4	J	mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	39100		mg/kg	21.2
				Chromium	4.5		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	1.4	J	mg/kg	2.1
				Iron	2360		mg/kg	10.6
				Magnesium	5030		mg/kg	21.2
				Manganese	34.1	J	mg/kg	1.1
				Nickel	4.1	J	mg/kg	4.2
				Potassium	529	J	mg/kg	530
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	530
				Tin		U	mg/kg	10.6
				Vanadium	14.6		mg/kg	1.1
				Zinc	6.2		mg/kg	2.1
				Arsenic	0.68		mg/kg	0.53
				Lead	1.7		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	0.53
	CAN113-B315-1020	0437350001SA	20-22	Aluminum	4290		mg/kg	22.2
				Antimony		U	mg/kg	13.3
				Barium	304		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	165000	J	mg/kg	44.4
				Chromium	2.3		mg/kg	2.2
				Cobalt	1.7	J	mg/kg	2.2
				Copper	1.7	J	mg/kg	4.4
				Iron	2610		mg/kg	22.2
				Magnesium	4920	J	mg/kg	44.4
				Manganese	29.9		mg/kg	2.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B315-1020	0437350001SA	20-22	Nickel	5.6	J	mg/kg	8.9
				Potassium	823	J	mg/kg	1110
				Silver		UJ	mg/kg	2.2
				Sodium		U	mg/kg	1110
				Vanadium	8.1		mg/kg	2.2
				Zinc	6.6		mg/kg	4.4
				Arsenic	0.9		mg/kg	0.55
				Lead	2.4		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B315-1025	0437350002SA	25-27	Aluminum	4490		mg/kg	22.2
				Antimony		U	mg/kg	13.3
				Barium	131		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	160000	J	mg/kg	44.4
				Chromium	3.2		mg/kg	2.2
				Cobalt	1.4	J	mg/kg	2.2
				Copper	1.9	J	mg/kg	4.4
				Iron	2960		mg/kg	22.2
				Magnesium	6250	J	mg/kg	44.4
				Manganese	30.2		mg/kg	2.2
				Nickel	5.4	J	mg/kg	8.9
				Potassium	726	J	mg/kg	
				Silver		UJ	mg/kg	
				Sodium		U	mg/kg	1110
				Vanadium	8.2		mg/kg	2.2
				Zinc	18.9		mg/kg	4.4
				Arsenic	1.1		mg/kg	0.56
				Lead	2.2		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.12	J	mg/kg	1.1
	CAN113-B315-1035	0437350003SA	35-35.8	Aluminum	5290		mg/kg	22.2
				Antimony		U	mg/kg	13.3
				Barium	245		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	95900	J	mg/kg	44.5
				Chromium	4.5		mg/kg	2.2
				Cobalt	1.5	J	mg/kg	2.2
				Copper	2.3	J	mg/kg	4.4
				Iron	3160		mg/kg	22.2
				Magnesium	11100	J	mg/kg	44.5
				Manganese	33.9		mg/kg	2.2
				Nickel	6.6	J	mg/kg	8.9
				Potassium	1040	J	mg/kg	1110
				Silver		UJ	mg/kg	2.2
				Sodium		U	mg/kg	1110
				Vanadium	14		mg/kg	2.2
				Zinc	7.8		mg/kg	4.4
				Arsenic	1.6		mg/kg	
				Lead	1.9		mg/kg	
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B315-1035	0437350003SA	35-35.8	Thallium	0.11	J	mg/kg	1.1
	CAN113-B315-1045	0437350004SA	45-46.8	Aluminum	4250		mg/kg	11.2
				Antimony		U	mg/kg	6.7
				Barium	51.3		mg/kg	1.1
				Beryllium	0.18	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.56
				Calcium	42100	J	mg/kg	22.4
				Chromium	5.4		mg/kg	1.1
				Cobalt	1	J	mg/kg	1.1
				Copper	1.5	J	mg/kg	2.2
				Iron	3140		mg/kg	11.2
				Magnesium	4690	J	mg/kg	22.4
				Manganese	38.2		mg/kg	1.1
				Nickel	4.6	J	mg/kg	4.5
				Potassium	1020		mg/kg	561
				Silver		UJ	mg/kg	1.1
				Sodium	113	J	mg/kg	561
				Vanadium	10.1		mg/kg	1.1
				Zinc	7.3		mg/kg	2.2
				Arsenic	0.82		mg/kg	0.56
				Lead	4.7		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.11	J	mg/kg	0.56
	CAN113-B315-1055	0437350005SA	55-55.8	Aluminum	4340		mg/kg	10.7
				Antimony		U	mg/kg	6.4
				Barium	43.2		mg/kg	1.1
				Beryllium	0.12	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.54
				Calcium	85800	J	mg/kg	21.4
				Chromium	5.2		mg/kg	1.1
				Cobalt	1.6		mg/kg	1.1
				Copper	1.7	J	mg/kg	2.1
				Iron	2930		mg/kg	10.7
				Magnesium	7950	J	mg/kg	21.4
				Manganese	38.8		mg/kg	1.1
				Nickel	3.9	J	mg/kg	4.3
				Potassium	812		mg/kg	536
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	536
				Tin		U	mg/kg	10.7
				Vanadium	15		mg/kg	1.1
				Zinc	6.7		mg/kg	2.1
				Arsenic	0.89		mg/kg	0.54
				Lead	1.8		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.16	J	mg/kg	0.54
	CAN113-B316-1000	0436970006SA	0-.5	Aluminum	5830		mg/kg	10.2
				Antimony		R	mg/kg	
				Barium	194	J	mg/kg	1
				Beryllium	0.38		mg/kg	0.2
				Cadmium		U	mg/kg	0.51
				Calcium	61200		mg/kg	20.4
				Chromium	19.2		mg/kg	1
				Cobalt	3.3		mg/kg	1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B316-1000	0436970006SA	0-.5	Copper	6.6		mg/kg	2
				Iron	5650		mg/kg	10.2
				Magnesium	1990		mg/kg	20.4
				Manganese	138	J	mg/kg	1
				Nickel	6.3		mg/kg	4.1
				Potassium	1880		mg/kg	510
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	510
				Vanadium	13.3		mg/kg	1
				Zinc	25.3		mg/kg	2
				Arsenic	1.8		mg/kg	0.51
				Lead	41.1		mg/kg	5.1
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	1
	CAN113-B316-1045	0436970008SA	45-46.9	Aluminum	4080		mg/kg	10.5
				Antimony		U	mg/kg	6.3
				Barium	184	J	mg/kg	1
				Beryllium	0.15	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	46500		mg/kg	21
				Chromium	6.2		mg/kg	1
				Cobalt	1.4		mg/kg	1
				Copper	12.6		mg/kg	2.1
				Iron	3240		mg/kg	
				Magnesium	4940		mg/kg	
				Manganese	33.2	J	mg/kg	1
				Nickel	5.1		mg/kg	4.2
				Potassium	938		mg/kg	525
				Silver	1.5		mg/kg	1
				Sodium		U	mg/kg	525
				Vanadium	8.2		mg/kg	1
				Zinc	10.6		mg/kg	2.1
				Arsenic	0.7		mg/kg	0.52
				Lead	4.6		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	1
	CAN113-B316-1050	0436970010SA	50-50.9	Aluminum	4710		mg/kg	10.5
				Antimony		U	mg/kg	6.3
				Barium	213	J	mg/kg	1.1
				Beryllium	0.19	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	63000		mg/kg	21.1
				Chromium	7.5		mg/kg	1.1
				Cobalt	1.5		mg/kg	1.1
				Copper	11.6		mg/kg	2.1
				Iron	3520		mg/kg	10.5
				Magnesium	7370		mg/kg	21.1
				Manganese	48	J	mg/kg	1.1
				Nickel	5.4		mg/kg	4.2
				Potassium	1030		mg/kg	527
				Silver	4.8		mg/kg	
				Sodium		U	mg/kg	
				Vanadium	10.8		mg/kg	1.1
				Zinc	15.6		mg/kg	2.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B316-1050	0436970010SA	50-50.9	Arsenic	0.78		mg/kg	0.53
				Lead	2.8		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B316-1060	0436970011SA	60-60.9	Aluminum	4500		mg/kg	10.6
				Antimony		U	mg/kg	6.4
				Barium	125	J	mg/kg	1.1
				Beryllium	0.19	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	46200		mg/kg	21.2
				Chromium	6.4		mg/kg	1.1
				Cobalt	1.6		mg/kg	1.1
				Copper	5.7		mg/kg	2.1
				Iron	3790		mg/kg	10.6
				Magnesium	5980		mg/kg	21.2
				Manganese	48.6	J	mg/kg	1.1
				Nickel	5.8		mg/kg	4.2
				Potassium	906		mg/kg	530
				Silver	1.2		mg/kg	1.1
				Sodium		U	mg/kg	530
				Vanadium	12.9		mg/kg	1.1
				Zinc	9.8		mg/kg	2.1
				Arsenic	0.66		mg/kg	0.53
				Lead	1.9		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B316-1070	0436970012SA	70-70.8	Aluminum	3200		mg/kg	10.5
				Antimony	5.4	J	mg/kg	6.3
				Barium	130	J	mg/kg	1.1
				Beryllium	0.14	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	46300		mg/kg	21.1
				Chromium	6.7		mg/kg	1.1
				Cobalt	2		mg/kg	1.1
				Copper	27.5		mg/kg	2.1
				Iron	3730		mg/kg	10.5
				Magnesium	3470		mg/kg	21.1
				Manganese	57.6	J	mg/kg	1.1
				Nickel	6.2		mg/kg	4.2
				Potassium	708		mg/kg	526
				Silver	0.98	J	mg/kg	1.1
				Sodium		U	mg/kg	526
				Vanadium	11.6		mg/kg	1.1
				Zinc	9.2		mg/kg	2.1
				Arsenic	0.74		mg/kg	0.53
				Lead	3.3		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B316-1080	0436970013SA	80-81.5	Aluminum	1530		mg/kg	10.4
				Antimony		UJ	mg/kg	6.2
				Barium	36.9		mg/kg	1
				Beryllium		U	mg/kg	0.21
				Cadmium	0.44	J	mg/kg	0.52

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B316-1080	0436970013SA	80-81.5	Calcium	8830		mg/kg	20.7
				Chromium	6.4		mg/kg	1
				Cobalt		U	mg/kg	1
				Copper	2.9		mg/kg	2.1
				Iron	2240		mg/kg	10.4
				Magnesium	1370		mg/kg	20.7
				Manganese	26.2		mg/kg	1
				Nickel	3	J	mg/kg	4.1
				Potassium	331	J	mg/kg	519
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	519
				Tin		U	mg/kg	10.4
				Vanadium	5.9		mg/kg	1
				Zinc	4.5		mg/kg	2.1
				Arsenic	0.39	J	mg/kg	1
				Lead	1.2		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		R	mg/kg	
	CAN113-B317-1019	0436970014SA	19-20.3	Aluminum	6020		mg/kg	21.4
				Antimony		R	mg/kg	
				Barium	1260	J	mg/kg	2.1
				Beryllium	0.37	J	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	168000		mg/kg	
				Chromium	7.1		mg/kg	[illegible]
				Cobalt	2	J	mg/kg	2.1
				Copper	3.2	J	mg/kg	4.3
				Iron	4890		mg/kg	21.4
				Magnesium	5120		mg/kg	42.8
				Manganese	50.7	J	mg/kg	2.1
				Nickel	20.5		mg/kg	8.6
				Potassium	1810		mg/kg	1070
				Silver		U	mg/kg	2.1
				Sodium		U	mg/kg	1070
				Vanadium	11.9		mg/kg	2.1
				Zinc	14.9		mg/kg	4.3
				Arsenic	0.92		mg/kg	0.54
				Lead	3.7		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B317-1025	0436970015SA	25-26.5	Aluminum	6970		mg/kg	21.4
				Antimony		R	mg/kg	
				Barium	238	J	mg/kg	2.1
				Beryllium	0.29	J	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	131000		mg/kg	42.8
				Chromium	5.9		mg/kg	2.1
				Cobalt	2	J	mg/kg	2.1
				Copper	3.4	J	mg/kg	4.3
				Iron	5630		mg/kg	21.4
				Magnesium	5660		mg/kg	
				Manganese	66	J	mg/kg	
				Nickel	8.6		mg/kg	8.6
				Potassium	1590		mg/kg	1070

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B317-1025	0436970015SA	25-26.5	Silver		U	mg/kg	2.1
				Sodium		U	mg/kg	1070
				Vanadium	20.4		mg/kg	2.1
				Zinc	24.3		mg/kg	4.3
				Arsenic	1.3		mg/kg	0.53
				Lead	5.5		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B317-1035	0436970016SA	35-36.3	Aluminum	6070		mg/kg	21.3
				Antimony	12.8	J	mg/kg	12.8
				Barium	736	J	mg/kg	2.1
				Beryllium	0.24	J	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	117000		mg/kg	42.5
				Chromium	3.1		mg/kg	2.1
				Cobalt	2.3		mg/kg	2.1
				Copper	2.4	J	mg/kg	4.3
				Iron	3920		mg/kg	21.3
				Magnesium	7880		mg/kg	42.5
				Manganese	41.2	J	mg/kg	2.1
				Nickel	2.5	J	mg/kg	8.5
				Potassium	1270		mg/kg	1060
				Silver		U	mg/kg	2.1
				Sodium		U	mg/kg	1060
				Vanadium	16.9		mg/kg	2.1
				Zinc	13.6		mg/kg	4.3
				Arsenic	1.4		mg/kg	0.53
				Lead	3.1		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B317-1045	0436970017SA	45-46.9	Aluminum	3560		mg/kg	10.4
				Antimony		R	mg/kg	
				Barium	59.1	J	mg/kg	1
				Beryllium	0.11	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	50100		mg/kg	20.8
				Chromium	4.8		mg/kg	1
				Cobalt	1.3		mg/kg	1
				Copper	1.9	J	mg/kg	2.1
				Iron	2720		mg/kg	10.4
				Magnesium	4830		mg/kg	20.8
				Manganese	39.6	J	mg/kg	1
				Nickel	3.9	J	mg/kg	4.2
				Potassium	826		mg/kg	519
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	519
				Vanadium	7.6		mg/kg	1
				Zinc	8.3		mg/kg	2.1
				Arsenic	0.79		mg/kg	0.52
				Lead	1.5		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	1
	CAN113-B317-1053	0436970018SA	53-55	Aluminum	3320		mg/kg	10.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B317-1053	0436970018SA	53-55	Antimony		R	mg/kg	
				Barium	22.9	J	mg/kg	1
				Beryllium	0.14	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	23600		mg/kg	20.8
				Chromium	2.8		mg/kg	1
				Cobalt	1.2		mg/kg	1
				Copper	1.5	J	mg/kg	2.1
				Iron	2700		mg/kg	10.4
				Magnesium	4070		mg/kg	20.8
				Manganese	37.4	J	mg/kg	1
				Nickel	3.4	J	mg/kg	4.2
				Potassium	749		mg/kg	519
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	519
				Tin	8.7	J	mg/kg	10.4
				Vanadium	8.6		mg/kg	1
				Zinc	7.4		mg/kg	2.1
				Arsenic	0.55		mg/kg	0.52
				Lead	2.2		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	1
	CAN113-B318-1028	0436970019SA	28-29.9	Aluminum	4450		mg/kg	21.7
				Antimony	14.8	J	mg/kg	
				Barium	104	J	mg/kg	[illegible]
				Beryllium	0.25	J	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	144000		mg/kg	43.4
				Chromium	4		mg/kg	2.2
				Cobalt	2.3		mg/kg	2.2
				Copper	3.2	J	mg/kg	4.3
				Iron	3670		mg/kg	21.7
				Magnesium	3860		mg/kg	43.4
				Manganese	46.3	J	mg/kg	2.2
				Nickel	6.3	J	mg/kg	8.7
				Potassium	1160		mg/kg	1080
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1080
				Vanadium	14.2		mg/kg	2.2
				Zinc	9.4		mg/kg	4.3
				Arsenic	1.3		mg/kg	0.54
				Lead	3		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B318-1033	0436970020SA	33-35	Aluminum	4070		mg/kg	10.8
				Antimony	4.4	J	mg/kg	6.5
				Barium	60.8	J	mg/kg	1.1
				Beryllium	0.21	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	35300		mg/kg	21.6
				Chromium	3.2		mg/kg	
				Cobalt	1.8		mg/kg	
				Copper	2.5		mg/kg	2.2
				Iron	3460		mg/kg	10.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B318-1033	0436970020SA	33-35	Magnesium	3350		mg/kg	21.6
				Manganese	59.7	J	mg/kg	1.1
				Nickel	6.5		mg/kg	4.3
				Potassium	1170		mg/kg	540
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	540
				Vanadium	17.8		mg/kg	1.1
				Zinc	8.3		mg/kg	2.2
				Arsenic	1.6		mg/kg	0.54
				Lead	3.7		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B318-1045	0437200016SA	45-47	Aluminum	3120		mg/kg	10.5
				Antimony		R	mg/kg	
				Barium	106	J	mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	30700		mg/kg	21.1
				Chromium	2.6		mg/kg	1.1
				Cobalt	1	J	mg/kg	1.1
				Copper	1.2	J	mg/kg	2.1
				Iron	2110		mg/kg	10.5
				Magnesium	4170		mg/kg	21.1
				Manganese	26.9	J	mg/kg	1.1
				Nickel	3.7	J	mg/kg	4.2
				Potassium	859		mg/kg	527
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	527
				Vanadium	6.6		mg/kg	1.1
				Zinc	5.1		mg/kg	2.1
				Arsenic	0.74		mg/kg	0.53
				Lead	1.7	J	mg/kg	2.6
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	0.53
	CAN113-B318-1055	0437200017SA	55-56.5	Aluminum	3760		mg/kg	10.5
				Antimony		R	mg/kg	
				Barium	310	J	mg/kg	1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	32400		mg/kg	21
				Chromium	3.8		mg/kg	1
				Cobalt	1.5		mg/kg	1
				Copper	1.2	J	mg/kg	2.1
				Iron	2710		mg/kg	10.5
				Magnesium	4690		mg/kg	21
				Manganese	46.1	J	mg/kg	1
				Nickel	4.1	J	mg/kg	4.2
				Potassium	881		mg/kg	524
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	524
				Vanadium	9.5		mg/kg	1
				Zinc	6.5		mg/kg	2.1
				Arsenic	0.78		mg/kg	0.52
				Lead	2.3		mg/kg	0.52

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B318-1055	0437200017SA	55-56.5	Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	0.52
				Thallium		U	mg/kg	0.52
	CAN113-B318-1063	0437200018SA	63-63.8	Aluminum	3160		mg/kg	10.6
				Antimony		UJ	mg/kg	6.4
				Barium	37.2		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	59700		mg/kg	21.3
				Chromium	9.7		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	1.9	J	mg/kg	2.1
				Iron	2990		mg/kg	10.6
				Magnesium	5830		mg/kg	21.3
				Manganese	37.5		mg/kg	1.1
				Nickel	4.4		mg/kg	4.3
				Potassium	553		mg/kg	532
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	532
				Tin		U	mg/kg	10.6
				Vanadium	11		mg/kg	1.1
				Zinc	5.8		mg/kg	2.1
				Arsenic	0.71		mg/kg	0.53
				Lead	1.9		mg/kg	0.53
				Mercury		U	mg/kg	
				Selenium		UJ	mg/kg	
				Thallium	0.19	J	mg/kg	0.53
	CAN113-B319-1000	0437200019SA	0-.5	Aluminum	5530		mg/kg	10.1
				Antimony		R	mg/kg	
				Barium	145	J	mg/kg	1
				Beryllium		U	mg/kg	0.39
				Cadmium		U	mg/kg	0.5
				Calcium	33400		mg/kg	20.2
				Chromium	6.7		mg/kg	1
				Cobalt	2.9		mg/kg	1
				Copper	5.2		mg/kg	2
				Iron	5990		mg/kg	10.1
				Magnesium	1490		mg/kg	20.2
				Manganese	108	J	mg/kg	1
				Nickel	7.2		mg/kg	4
				Potassium	1260		mg/kg	505
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	505
				Vanadium	15.9		mg/kg	1
				Zinc	17		mg/kg	2
				Arsenic	2.7		mg/kg	0.5
				Lead	9.2		mg/kg	1
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.13	J	mg/kg	0.5
	CAN113-B319-1018	0437200020SA	18-20	Aluminum	5760		mg/kg	10.8
				Antimony		UJ	mg/kg	6.5
				Barium	61.3		mg/kg	
				Beryllium		U	mg/kg	
				Cadmium		U	mg/kg	0.54
				Calcium	78800		mg/kg	21.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B319-1018	0437200020SA	18-20	Chromium	5.5		mg/kg	1.1
				Cobalt	2.2		mg/kg	1.1
				Copper	3.4		mg/kg	2.2
				Iron	4840		mg/kg	10.8
				Magnesium	3710		mg/kg	21.6
				Manganese	65.8		mg/kg	1.1
				Nickel	7.3		mg/kg	4.3
				Potassium	1720		mg/kg	540
				Silver		U	mg/kg	1.1
				Sodium	157	J	mg/kg	540
				Vanadium	15.6		mg/kg	1.1
				Zinc	10.6		mg/kg	2.2
				Arsenic	2.2		mg/kg	0.54
				Lead	5.1		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		R	mg/kg	
				Thallium	0.16	J	mg/kg	1.1
	CAN113-B319-1025	0437200021SA	25-27	Aluminum	8250		mg/kg	11.2
				Antimony		UJ	mg/kg	6.7
				Barium	54.2		mg/kg	1.1
				Beryllium	0.59		mg/kg	0.22
				Cadmium		U	mg/kg	0.56
				Calcium	6740		mg/kg	22.4
				Chromium	9.3		mg/kg	1.1
				Cobalt	2.1		mg/kg	1.1
				Copper	5		mg/kg	2.2
				Iron	8810		mg/kg	11.2
				Magnesium	2730		mg/kg	22.4
				Manganese	56.2		mg/kg	1.1
				Nickel	8.9		mg/kg	4.5
				Potassium	2550		mg/kg	560
				Silver		U	mg/kg	1.1
				Sodium	253	J	mg/kg	560
				Vanadium	35.6		mg/kg	1.1
				Zinc	16.2		mg/kg	2.2
				Arsenic	5.8		mg/kg	0.56
				Lead	7.3		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		R	mg/kg	
				Thallium	0.21	J	mg/kg	0.56
	CAN113-B319-1035	0437200022SA	35-35.9	Aluminum	3880		mg/kg	10.7
				Antimony		UJ	mg/kg	6.4
				Barium	207		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.54
				Calcium	85100		mg/kg	21.4
				Chromium	4.1		mg/kg	1.1
				Cobalt	1.3		mg/kg	1.1
				Copper	1.5	J	mg/kg	2.1
				Iron	2710		mg/kg	10.7
				Magnesium	3550		mg/kg	21.4
				Manganese	35		mg/kg	1.1
				Nickel	4.5		mg/kg	4.3
				Potassium	706		mg/kg	536
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	536

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B319-1035	0437200022SA	35-35.9	Vanadium	12		mg/kg	1.1
				Zinc	6.9		mg/kg	2.1
				Arsenic	1.1		mg/kg	0.54
				Lead	2.1		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		R	mg/kg	
				Thallium	0.19	J	mg/kg	0.54
	CAN113-B319-1045	0437200023SA	45-47	Aluminum	3170		mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	37.5		mg/kg	1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	55900		mg/kg	21
				Chromium	2.8		mg/kg	1
				Cobalt	1.1		mg/kg	1
				Copper	1.1	J	mg/kg	2.1
				Iron	2420		mg/kg	10.5
				Magnesium	2880		mg/kg	21
				Manganese	28.7		mg/kg	1
				Nickel		U	mg/kg	4.2
				Potassium	803		mg/kg	525
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	525
				Vanadium	6.7		mg/kg	1
				Zinc	5.8		mg/kg	
				Arsenic	0.84	J	mg/kg	
				Lead	1		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		R	mg/kg	
				Thallium		U	mg/kg	0.52
	CAN113-B319-1053	0437200024SA	53-56.5	Aluminum	4220		mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	72.9		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	54200		mg/kg	21.1
				Chromium	4.4		mg/kg	1.1
				Cobalt	1.4		mg/kg	1.1
				Copper	1.6	J	mg/kg	2.1
				Iron	2890		mg/kg	10.5
				Magnesium	5600		mg/kg	21.1
				Manganese	40.1		mg/kg	1.1
				Nickel	4.4		mg/kg	4.2
				Potassium	889		mg/kg	527
				Silver	0.32	J	mg/kg	1.1
				Sodium		U	mg/kg	527
				Tin		U	mg/kg	10.5
				Vanadium	8.5		mg/kg	1.1
				Zinc	7.6		mg/kg	2.1
				Arsenic	0.86	J	mg/kg	2.1
				Lead	1.9		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	
				Thallium	0.19	J	mg/kg	
	CAN113-B320-1016	0436970001SA	16-17.5	Aluminum	6210		mg/kg	11.2
				Antimony		UJ	mg/kg	6.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B320-1016	0436970001SA	16-17.5	Barium	69.4		mg/kg	1.1
				Beryllium	0.47		mg/kg	0.22
				Cadmium		UJ	mg/kg	0.56
				Calcium	83400		mg/kg	22.3
				Chromium	7.4		mg/kg	1.1
				Cobalt	2.9		mg/kg	1.1
				Copper	23.5		mg/kg	2.2
				Iron	6000		mg/kg	11.2
				Magnesium	4080		mg/kg	22.3
				Manganese	40.2		mg/kg	1.1
				Nickel	7.4		mg/kg	4.5
				Potassium	1920		mg/kg	559
				Silver		U	mg/kg	1.1
				Sodium	233	J	mg/kg	559
				Vanadium	21.8		mg/kg	1.1
				Zinc	12.1		mg/kg	2.2
				Arsenic	2.3		mg/kg	0.56
				Lead	9.3		mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		R	mg/kg	
				Thallium		U	mg/kg	1.1
	CAN113-B320-1020	0436970002SA	20-22	Aluminum	4140		mg/kg	22.1
				Antimony		UJ	mg/kg	13.2
				Barium	427		mg/kg	2.2
				Beryllium	0.28	J	mg/kg	0.44
				Cadmium		UJ	mg/kg	1.1
				Calcium	197000		mg/kg	44.2
				Chromium	3.8		mg/kg	2.2
				Cobalt	2	J	mg/kg	2.2
				Copper	3	J	mg/kg	4.4
				Iron	3200		mg/kg	22.1
				Magnesium	5660		mg/kg	44.2
				Manganese	38.3		mg/kg	2.2
				Nickel	5.6	J	mg/kg	8.8
				Potassium	1040	J	mg/kg	1100
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1100
				Vanadium	12.4		mg/kg	2.2
				Zinc	10.3		mg/kg	4.4
				Arsenic	1.8		mg/kg	0.55
				Lead	3.9		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		R	mg/kg	
				Thallium		U	mg/kg	2.2
	CAN113-B320-1030	0436970003SA	30-32	Aluminum	3710		mg/kg	11.5
				Antimony		R	mg/kg	
				Barium	50.7	J	mg/kg	1.2
				Beryllium	0.21	J	mg/kg	0.23
				Cadmium		UJ	mg/kg	0.58
				Calcium	44000		mg/kg	23
				Chromium	4.1		mg/kg	1.2
				Cobalt	2		mg/kg	1.2
				Copper	2.9		mg/kg	2.3
				Iron	3120		mg/kg	11.5
				Magnesium	2430		mg/kg	23
				Manganese	56.7	J	mg/kg	1.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B320-1030	0436970003SA	30-32	Nickel	5.4		mg/kg	4.6
				Potassium	964		mg/kg	575
				Silver		U	mg/kg	1.2
				Sodium		U	mg/kg	575
				Vanadium	13.3		mg/kg	1.2
				Zinc	8.1		mg/kg	2.3
				Arsenic	2		mg/kg	0.58
				Lead	3.6		mg/kg	0.58
				Mercury		U	mg/kg	0.12
				Selenium		UJ	mg/kg	1.2
				Thallium		U	mg/kg	1.2
	CAN113-B320-1040	0436970004SA	40-41.8	Aluminum	5090		mg/kg	10.8
				Antimony		R	mg/kg	
				Barium	64.3	J	mg/kg	1.1
				Beryllium	0.14	J	mg/kg	0.22
				Cadmium		UJ	mg/kg	0.54
				Calcium	74600		mg/kg	21.5
				Chromium	4		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	2.7		mg/kg	2.2
				Iron	3010		mg/kg	10.8
				Magnesium	9300		mg/kg	21.5
				Manganese	28.1	J	mg/kg	1.1
				Nickel	4.3		mg/kg	4.3
				Potassium	973		mg/kg	
				Silver		U	mg/kg	
				Sodium		U	mg/kg	538
				Vanadium	12.4		mg/kg	1.1
				Zinc	7.3		mg/kg	2.2
				Arsenic	1.1		mg/kg	0.54
				Lead	1.7		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		U	mg/kg	1.1
	CAN113-B320-1052	0436970005SA	52-53	Aluminum	3740		mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	88.1		mg/kg	1
				Beryllium	0.14	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	31800		mg/kg	20.9
				Chromium	4.5		mg/kg	1
				Cobalt	1.4		mg/kg	1
				Copper	2.6		mg/kg	2.1
				Iron	3130		mg/kg	10.5
				Magnesium	4950		mg/kg	20.9
				Manganese	42.6		mg/kg	1
				Nickel	4.1	J	mg/kg	4.2
				Potassium	767		mg/kg	523
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	523
				Tin	9.8	J	mg/kg	10.5
				Vanadium	9		mg/kg	1
				Zinc	7.4		mg/kg	
				Arsenic	0.5	J	mg/kg	
				Lead	2.1		mg/kg	0.52
				Mercury		U	mg/kg	0.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B320-1052	0436970005SA	52-53	Selenium		UJ	mg/kg	1
				Thallium		R	mg/kg	
	CAN113-B321-1022	0437350012SA	22-22.9	Aluminum	2730	J	mg/kg	10.7
				Antimony		UJ	mg/kg	6.4
				Barium	377	J	mg/kg	1.1
				Beryllium	0.17	J	mg/kg	0.21
				Cadmium	0.69		mg/kg	0.54
				Calcium	254000	J	mg/kg	21.4
				Chromium	3	J	mg/kg	1.1
				Cobalt	0.9	J	mg/kg	1.1
				Copper	0.91	J	mg/kg	2.1
				Iron	2220	J	mg/kg	10.7
				Magnesium	3660	J	mg/kg	21.4
				Manganese	20.8	J	mg/kg	1.1
				Nickel	2.6	J	mg/kg	4.3
				Potassium	775		mg/kg	535
				Silver	1.2		mg/kg	1.1
				Sodium		U	mg/kg	535
				Vanadium	10.6		mg/kg	1.1
				Zinc	6.5	J	mg/kg	2.1
				Arsenic	0.97		mg/kg	0.54
				Lead	2.7		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.12	J	mg/kg	1.1
	CAN113-B321-1027	0437350013SA	27-29	Aluminum	3220		mg/kg	22.6
				Antimony		U	mg/kg	13.5
				Barium	180		mg/kg	2.3
				Beryllium		U	mg/kg	0.45
				Cadmium		U	mg/kg	1.1
				Calcium	173000	J	mg/kg	45.1
				Chromium	2.1	J	mg/kg	2.3
				Cobalt		U	mg/kg	2.3
				Copper	1.2	J	mg/kg	4.5
				Iron	1660		mg/kg	22.6
				Magnesium	5870	J	mg/kg	45.1
				Manganese	20.3		mg/kg	2.3
				Nickel	5.2	J	mg/kg	9
				Potassium	504	J	mg/kg	1130
				Silver		UJ	mg/kg	2.3
				Sodium		U	mg/kg	1130
				Vanadium	20.2		mg/kg	2.3
				Zinc	5.1		mg/kg	4.5
				Arsenic	0.65		mg/kg	0.56
				Lead	2		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.14	J	mg/kg	1.1
	CAN113-B321-1035	0437350014SA	35-35.8	Aluminum	3870		mg/kg	21.8
				Antimony		U	mg/kg	13.1
				Barium	293		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	164000		mg/kg	43.5
				Chromium	5.4		mg/kg	2.2
				Cobalt	1.6	J	mg/kg	2.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B321-1035	0437350014SA	35-35.8	Copper	6.4		mg/kg	4.4
				Iron	2340		mg/kg	21.8
				Magnesium	8910	J	mg/kg	43.5
				Manganese	26.7		mg/kg	2.2
				Nickel		UJ	mg/kg	8.7
				Potassium	615	J	mg/kg	1090
				Silver		UJ	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	15		mg/kg	2.2
				Zinc	6.8		mg/kg	4.4
				Arsenic	0.91		mg/kg	0.54
				Lead	2.6		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B321-1045	0437350015SA	45-46.8	Aluminum	4940		mg/kg	10.4
				Antimony		U	mg/kg	6.2
				Barium	91.5		mg/kg	1
				Beryllium		U	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	39200	J	mg/kg	20.8
				Chromium	10.9		mg/kg	1
				Cobalt	1		mg/kg	1
				Copper	1.5	J	mg/kg	2.1
				Iron	3740		mg/kg	
				Magnesium	3960	J	mg/kg	[illegible]
				Manganese	35.9		mg/kg	1
				Nickel		UJ	mg/kg	4.2
				Potassium	1140		mg/kg	520
				Silver		UJ	mg/kg	1
				Sodium		U	mg/kg	520
				Vanadium	9.2		mg/kg	1
				Zinc	7.4		mg/kg	2.1
				Arsenic	0.39	J	mg/kg	0.52
				Lead	1.7		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.17	J	mg/kg	1
	CAN113-B321-1057	0437350016SA	57-58.8	Aluminum	4340		mg/kg	10.7
				Antimony		U	mg/kg	6.4
				Barium	277		mg/kg	1.1
				Beryllium	0.13	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	35800	J	mg/kg	21.4
				Chromium	6.4		mg/kg	1.1
				Cobalt	1.3		mg/kg	1.1
				Copper	1.6	J	mg/kg	2.1
				Iron	3040		mg/kg	10.7
				Magnesium	5490	J	mg/kg	21.4
				Manganese	37.7		mg/kg	1.1
				Nickel		UJ	mg/kg	4.3
				Potassium	764		mg/kg	534
				Silver		UJ	mg/kg	
				Sodium		U	mg/kg	
				Tin		U	mg/kg	10.7
				Vanadium	12.8		mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B321-1057	0437350016SA	57-58.8	Zinc	6.5		mg/kg	2.1
				Arsenic	0.34	J	mg/kg	0.53
				Lead	1.4		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.17	J	mg/kg	0.53
	CAN113-B322-1000	0436170012SA	0-.5	Aluminum	6010		mg/kg	10.2
				Antimony	5.2	J	mg/kg	6.1
				Barium	226	J	mg/kg	1
				Beryllium	0.45		mg/kg	0.2
				Cadmium		U	mg/kg	0.51
				Calcium	83300		mg/kg	20.5
				Chromium	5		mg/kg	1
				Cobalt	3.1		mg/kg	1
				Copper	5.5		mg/kg	2
				Iron	5510		mg/kg	10.2
				Magnesium	2270		mg/kg	20.5
				Manganese	129	J	mg/kg	1
				Nickel	7.1		mg/kg	4.1
				Potassium	1390		mg/kg	512
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	512
				Vanadium	15.8		mg/kg	1
				Zinc	22.1		mg/kg	2
				Arsenic	2.3		mg/kg	0.51
				Lead	78.2		mg/kg	5.1
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	1
	CAN113-B322-1018	0436170001SA	18-20	Aluminum	5360		mg/kg	10.3
				Antimony		U	mg/kg	6.2
				Barium	115	J	mg/kg	1
				Beryllium	0.29		mg/kg	0.21
				Cadmium		U	mg/kg	0.51
				Calcium	36900		mg/kg	20.6
				Chromium	4.2		mg/kg	1
				Cobalt	2		mg/kg	1
				Copper	2.3		mg/kg	2.1
				Iron	4250		mg/kg	10.3
				Magnesium	3140		mg/kg	20.6
				Manganese	41.8	J	mg/kg	1
				Nickel	8.1		mg/kg	4.1
				Potassium	1540		mg/kg	514
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	514
				Vanadium	11.9		mg/kg	1
				Zinc	10.8		mg/kg	2.1
				Arsenic	1.1		mg/kg	0.51
				Lead	3.7		mg/kg	0.51
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium	0.13	J	mg/kg	1
	CAN113-B322-1025	0436170002SA	25-25.5	Aluminum	7190		mg/kg	21.8
				Antimony	11	J	mg/kg	13.1
				Barium	137	J	mg/kg	2.2
				Beryllium	0.33	J	mg/kg	0.44

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B322-1025	0436170002SA	25-25.5	Cadmium		U	mg/kg	1.1
				Calcium	207000		mg/kg	43.7
				Chromium	6.4		mg/kg	2.2
				Cobalt	2.4		mg/kg	2.2
				Copper	3.1	J	mg/kg	4.4
				Iron	4090		mg/kg	21.8
				Magnesium	10200		mg/kg	43.7
				Manganese	44.1	J	mg/kg	2.2
				Nickel	9		mg/kg	8.7
				Potassium	1280		mg/kg	1090
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	16.5		mg/kg	2.2
				Zinc	14.4		mg/kg	4.4
				Arsenic	0.75		mg/kg	0.55
				Lead	2.6		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.2
	CAN113-B322-1035	0436170003SA	35-36.2	Aluminum	5090		mg/kg	21.2
				Antimony		U	mg/kg	12.7
				Barium	94.3	J	mg/kg	2.1
				Beryllium		U	mg/kg	0.42
				Cadmium		U	mg/kg	[illegible]
				Calcium	150000		mg/kg	
				Chromium	2.2		mg/kg	[illegible]
				Cobalt		U	mg/kg	2.1
				Copper	2	J	mg/kg	4.2
				Iron	3180		mg/kg	21.2
				Magnesium	6560		mg/kg	42.4
				Manganese	27.9	J	mg/kg	2.1
				Nickel	5.9	J	mg/kg	8.5
				Potassium	976	J	mg/kg	1060
				Silver		U	mg/kg	2.1
				Sodium		U	mg/kg	1060
				Vanadium	11		mg/kg	2.1
				Zinc	9.9		mg/kg	4.2
				Arsenic	0.97		mg/kg	0.53
				Lead	2.3		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.1
	CAN113-B322-1045	0436170004SA	45-45.9	Aluminum	3880		mg/kg	10.4
				Antimony		U	mg/kg	6.3
				Barium	84.2	J	mg/kg	1
				Beryllium	0.12	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	59000		mg/kg	20.9
				Chromium	2.3		mg/kg	1
				Cobalt	0.87	J	mg/kg	1
				Copper	1.4	J	mg/kg	2.1
				Iron	2860		mg/kg	10.4
				Magnesium	4430		mg/kg	
				Manganese	31	J	mg/kg	
				Nickel	3.8	J	mg/kg	4.2
				Potassium	816		mg/kg	522

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B322-1045	0436170004SA	45-45.9	Silver		U	mg/kg	1
				Sodium		U	mg/kg	522
				Vanadium	7.4		mg/kg	1
				Zinc	7.9		mg/kg	2.1
				Arsenic	0.68		mg/kg	0.52
				Lead	1.9		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	1
	CAN113-B322-1056	0436170005SA	56.5-58.5	Aluminum	4380		mg/kg	10.6
				Antimony		UJ	mg/kg	6.4
				Barium	32.7		mg/kg	1.1
				Beryllium	0.17	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	53300		mg/kg	21.2
				Chromium	3.6		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	1.5	J	mg/kg	2.1
				Iron	3090		mg/kg	10.6
				Magnesium	6800		mg/kg	21.2
				Manganese	39.6		mg/kg	1.1
				Nickel	3.7	J	mg/kg	4.2
				Potassium	760		mg/kg	530
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	530
				Tin		U	mg/kg	10.6
				Vanadium	13.9		mg/kg	1.1
				Zinc	8		mg/kg	2.1
				Arsenic	0.75		mg/kg	0.53
				Lead	2.4	J	mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		R	mg/kg	
	CAN113-B323-1019	0436170013SA	19-20.5	Aluminum	5530		mg/kg	55.8
				Antimony		U	mg/kg	33.5
				Barium	194	J	mg/kg	5.6
				Beryllium		U	mg/kg	1.1
				Cadmium		U	mg/kg	2.8
				Calcium	251000		mg/kg	112
				Chromium		U	mg/kg	5.6
				Cobalt		U	mg/kg	5.6
				Copper	6.2	J	mg/kg	11.2
				Iron	3430		mg/kg	55.8
				Magnesium	7100		mg/kg	112
				Manganese	56.1	J	mg/kg	5.6
				Nickel	6.5	J	mg/kg	22.3
				Potassium	1410	J	mg/kg	2790
				Silver		U	mg/kg	5.6
				Sodium		U	mg/kg	2790
				Vanadium	14		mg/kg	5.6
				Zinc	13.3		mg/kg	11.2
				Arsenic	1.3		mg/kg	0.56
				Lead	3.1		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B323-1024	0436170014SA	24-26	Aluminum	6410		mg/kg	22.3
				Antimony		U	mg/kg	13.4
				Barium	608	J	mg/kg	2.2
				Beryllium	0.31	J	mg/kg	0.45
				Cadmium		U	mg/kg	1.1
				Calcium	129000		mg/kg	44.7
				Chromium	5.3		mg/kg	2.2
				Cobalt	1.8	J	mg/kg	2.2
				Copper	7.4		mg/kg	4.5
				Iron	4160		mg/kg	22.3
				Magnesium	7660		mg/kg	44.7
				Manganese	32.6	J	mg/kg	2.2
				Nickel	7.2	J	mg/kg	8.9
				Potassium	1290		mg/kg	1120
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1120
				Vanadium	22.3		mg/kg	2.2
				Zinc	13		mg/kg	4.5
				Arsenic	1.2		mg/kg	0.56
				Lead	3.7		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B323-1035	0436170015SA	35-36.3	Aluminum	5380		mg/kg	22
				Antimony		U	mg/kg	
				Barium	113	J	mg/kg	[illegible]
				Beryllium	0.24	J	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	174000		mg/kg	44
				Chromium	7.5		mg/kg	2.2
				Cobalt	2	J	mg/kg	2.2
				Copper	3.6	J	mg/kg	4.4
				Iron	3620		mg/kg	22
				Magnesium	8950		mg/kg	44
				Manganese	39.9	J	mg/kg	2.2
				Nickel	4	J	mg/kg	8.8
				Potassium	906	J	mg/kg	1100
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1100
				Vanadium	20.1		mg/kg	2.2
				Zinc	9		mg/kg	4.4
				Arsenic	1.5		mg/kg	0.55
				Lead	2.3		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.2
	CAN113-B323-1045	0436170016SA	45-47	Aluminum	5170		mg/kg	10.5
				Antimony		U	mg/kg	6.3
				Barium	41.1	J	mg/kg	1
				Beryllium	0.15	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.52
				Calcium	28400		mg/kg	21
				Chromium	4.2		mg/kg	
				Cobalt	1.4		mg/kg	
				Copper	1.7	J	mg/kg	2.1
				Iron	3870		mg/kg	10.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B323-1045	0436170016SA	45-47	Magnesium	4160		mg/kg	21
				Manganese	44.2	J	mg/kg	1
				Nickel	3.6	J	mg/kg	4.2
				Potassium	1100		mg/kg	524
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	524
				Vanadium	9.7		mg/kg	1
				Zinc	8.5		mg/kg	2.1
				Arsenic	0.76		mg/kg	0.52
				Lead	2.2		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	0.52
	CAN113-B323-1054	0436170017SA	54-55.1	Aluminum	4990		mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	47.1		mg/kg	1.1
				Beryllium	0.15	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.53
				Calcium	32800		mg/kg	21.1
				Chromium	7.9		mg/kg	1.1
				Cobalt	1.7		mg/kg	1.1
				Copper	3		mg/kg	2.1
				Iron	4080		mg/kg	10.5
				Magnesium	4630		mg/kg	21.1
				Manganese	47.4		mg/kg	1.1
				Nickel	4.2		mg/kg	4.2
				Potassium	1010		mg/kg	526
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	526
				Tin	8.9	J	mg/kg	10.5
				Vanadium	10.7		mg/kg	1.1
				Zinc	9.1		mg/kg	2.1
				Arsenic	0.75		mg/kg	0.53
				Lead	2.4		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		R	mg/kg	
	CAN113-B324-1024	0437200011SA	24-26	Aluminum	3310		mg/kg	22.1
				Antimony		UJ	mg/kg	13.3
				Barium	103		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	185000		mg/kg	44.2
				Chromium	2.2	J	mg/kg	2.2
				Cobalt	2	J	mg/kg	2.2
				Copper	2.3	J	mg/kg	4.4
				Iron	2000	J	mg/kg	22.1
				Magnesium	3910	J	mg/kg	44.2
				Manganese	30.2	J	mg/kg	2.2
				Nickel	3.4	J	mg/kg	8.8
				Potassium	547	J	mg/kg	1110
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1110
				Vanadium	9.1		mg/kg	2.2
				Zinc	6.9	J	mg/kg	4.4
				Arsenic	0.7		mg/kg	0.55

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B324-1024	0437200011SA	24-26	Lead	2.2	UJ	mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B324-1029	0437200012SA	29-29.8	Aluminum	4490		mg/kg	21.7
				Antimony		UJ	mg/kg	13
				Barium	367		mg/kg	2.2
				Beryllium		U	mg/kg	0.43
				Cadmium		U	mg/kg	1.1
				Calcium	145000		mg/kg	43.4
				Chromium	3.7	J	mg/kg	2.2
				Cobalt	1.8	J	mg/kg	2.2
				Copper	41.9		mg/kg	4.3
				Iron	3040	J	mg/kg	21.7
				Magnesium	4370	J	mg/kg	43.4
				Manganese	32.3	J	mg/kg	2.2
				Nickel	6.1	J	mg/kg	8.7
				Potassium	631	J	mg/kg	1090
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	12.8		mg/kg	2.2
				Zinc	11.9	J	mg/kg	4.3
				Arsenic	0.74		mg/kg	0.54
				Lead	12.2	J	mg/kg	1.1
				Mercury		U	mg/kg	
				Selenium		UJ	mg/kg	[illegible]
				Thallium	0.12	J	mg/kg	1.1
	CAN113-B324-1040	0437200013SA	40-42	Aluminum	4230		mg/kg	10.8
				Antimony		UJ	mg/kg	6.5
				Barium	56.2		mg/kg	1.1
				Beryllium	0.13	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	49200		mg/kg	21.6
				Chromium	3.5	J	mg/kg	1.1
				Cobalt	1.4		mg/kg	1.1
				Copper	2.1	J	mg/kg	2.2
				Iron	2880	J	mg/kg	10.8
				Magnesium	5190	J	mg/kg	21.6
				Manganese	47.7	J	mg/kg	1.1
				Nickel	4.9	J	mg/kg	4.3
				Potassium	1090		mg/kg	539
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	539
				Vanadium	11.6		mg/kg	1.1
				Zinc	8.9	J	mg/kg	2.2
				Arsenic	0.12	J	mg/kg	0.54
				Lead	1.9	J	mg/kg	1.1
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	0.54
	CAN113-B324-1050	0437200014SA	50-50.8	Aluminum	3500		mg/kg	10.5
				Antimony		UJ	mg/kg	6.3
				Barium	147		mg/kg	
				Beryllium		U	mg/kg	
				Cadmium		U	mg/kg	0.52
				Calcium	69000		mg/kg	21

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B324-1050	0437200014SA	50-50.8	Chromium	4.6	J	mg/kg	1
				Cobalt	1.1		mg/kg	1
				Copper	2.1		mg/kg	2.1
				Iron	2330	J	mg/kg	10.5
				Magnesium	5440	J	mg/kg	21
				Manganese	29.1	J	mg/kg	1
				Nickel	3.4	J	mg/kg	4.2
				Potassium	788		mg/kg	524
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	524
				Vanadium	9.3		mg/kg	1
				Zinc	5.8	J	mg/kg	2.1
				Arsenic	0.73		mg/kg	0.52
				Lead	2	J	mg/kg	1
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	1
	CAN113-B324-1059	0437200015SA	59-60	Aluminum	3600		mg/kg	10.8
				Antimony		UJ	mg/kg	6.5
				Barium	251		mg/kg	1.1
				Beryllium		U	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	71800		mg/kg	21.5
				Chromium	6.7	J	mg/kg	1.1
				Cobalt	1.5		mg/kg	1.1
				Copper	7.9		mg/kg	2.2
				Iron	2370	J	mg/kg	10.8
				Magnesium	9230	J	mg/kg	21.5
				Manganese	39.7	J	mg/kg	1.1
				Nickel	4	J	mg/kg	4.3
				Potassium	648		mg/kg	538
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	538
				Tin		U	mg/kg	10.8
				Vanadium	14.1		mg/kg	1.1
				Zinc	5.8	J	mg/kg	2.2
				Arsenic	0.68		mg/kg	0.54
				Lead	2.2	J	mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	0.54
	CAN113-B325-1000	0436170006SA	0-.5	Aluminum	7950		mg/kg	20.6
				Antimony		UJ	mg/kg	12.4
				Barium	281	J	mg/kg	2.1
				Beryllium	0.45		mg/kg	0.41
				Cadmium		U	mg/kg	1
				Calcium	118000		mg/kg	41.3
				Chromium	5.2		mg/kg	2.1
				Cobalt	3.2		mg/kg	2.1
				Copper	4.3		mg/kg	4.1
				Iron	6140		mg/kg	20.6
				Magnesium	4090		mg/kg	41.3
				Manganese	81.8	J	mg/kg	2.1
				Nickel	6.6	J	mg/kg	8.3
				Potassium	2100		mg/kg	1030
				Silver		U	mg/kg	2.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B325-1000	0436170006SA	0-.5	Sodium		U	mg/kg	1030
				Vanadium	17.1		mg/kg	2.1
				Zinc	17.6		mg/kg	4.1
				Arsenic	1.7		mg/kg	0.52
				Lead	5.2		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	1
	CAN113-B325-1024	0436170007SA	24-26	Aluminum	7690		mg/kg	11.3
				Antimony	5.2	J	mg/kg	6.8
				Barium	103		mg/kg	1.1
				Beryllium	0.35		mg/kg	0.23
				Cadmium		U	mg/kg	0.56
				Calcium	74700		mg/kg	22.5
				Chromium	5.1	J	mg/kg	1.1
				Cobalt	2.3		mg/kg	1.1
				Copper	2.2	J	mg/kg	2.3
				Iron	5650	J	mg/kg	11.3
				Magnesium	5290	J	mg/kg	22.5
				Manganese	52.2	J	mg/kg	1.1
				Nickel	7.1	J	mg/kg	4.5
				Potassium	1470		mg/kg	563
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	563
				Vanadium	15.2		mg/kg	
				Zinc	14	J	mg/kg	[illegible]
				Arsenic	0.84		mg/kg	0.56
				Lead	3.9	J	mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B325-1030	0436170008SA	30-30.9	Aluminum	7740		mg/kg	24.2
				Antimony		UJ	mg/kg	14.5
				Barium	386		mg/kg	2.4
				Beryllium	0.28	J	mg/kg	0.48
				Cadmium		U	mg/kg	1.2
				Calcium	143000		mg/kg	48.4
				Chromium	14.1	J	mg/kg	2.4
				Cobalt	2.4		mg/kg	2.4
				Copper	4.3	J	mg/kg	4.8
				Iron	6290	J	mg/kg	24.2
				Magnesium	13000	J	mg/kg	48.4
				Manganese	55.9	J	mg/kg	2.4
				Nickel	68.6	J	mg/kg	9.7
				Potassium	1300		mg/kg	1210
				Silver		U	mg/kg	2.4
				Sodium		U	mg/kg	1210
				Vanadium	19.4		mg/kg	2.4
				Zinc	59	J	mg/kg	4.8
				Arsenic	1.1		mg/kg	0.6
				Lead	4.4	J	mg/kg	0.6
				Mercury		U	mg/kg	0.12
				Selenium		UJ	mg/kg	
				Thallium		UJ	mg/kg	
	CAN113-B325-1040	0436170009SA	40-42	Aluminum	5570		mg/kg	10.8
				Antimony		UJ	mg/kg	6.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B325-1040	0436170009SA	40-42	Barium	56.3		mg/kg	1.1
				Beryllium	0.19	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.54
				Calcium	48900		mg/kg	21.7
				Chromium	3.4	J	mg/kg	1.1
				Cobalt	1.6		mg/kg	1.1
				Copper	1.7	J	mg/kg	2.2
				Iron	3310	J	mg/kg	10.8
				Magnesium	7440	J	mg/kg	21.7
				Manganese	33.8	J	mg/kg	1.1
				Nickel	5.4	J	mg/kg	4.3
				Potassium	1160		mg/kg	542
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	542
				Vanadium	11.8		mg/kg	1.1
				Zinc	9.2	J	mg/kg	2.2
				Arsenic	0.82		mg/kg	0.54
				Lead	3.3	J	mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B325-1050	0436170010SA	50-50.5	Aluminum	4880		mg/kg	11.1
				Antimony		UJ	mg/kg	6.6
				Barium	263		mg/kg	1.1
				Beryllium	0.18	J	mg/kg	0.22
				Cadmium		U	mg/kg	0.55
				Calcium	81200		mg/kg	22.2
				Chromium	5.8	J	mg/kg	1.1
				Cobalt	1.5		mg/kg	1.1
				Copper	2.3		mg/kg	2.2
				Iron	3310	J	mg/kg	11.1
				Magnesium	7540	J	mg/kg	22.2
				Manganese	37.4	J	mg/kg	1.1
				Nickel	5.5	J	mg/kg	4.4
				Potassium	1030		mg/kg	554
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	554
				Vanadium	11.2		mg/kg	1.1
				Zinc	8.9	J	mg/kg	2.2
				Arsenic	0.91		mg/kg	0.55
				Lead	2.9	J	mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B325-1060	0436170011SA	60-62	Aluminum	4070		mg/kg	10.7
				Antimony		UJ	mg/kg	6.4
				Barium	42.1		mg/kg	1.1
				Beryllium	0.16	J	mg/kg	0.21
				Cadmium		U	mg/kg	0.54
				Calcium	52500		mg/kg	21.4
				Chromium	3		mg/kg	1.1
				Cobalt	1.2		mg/kg	1.1
				Copper	1.5	J	mg/kg	2.1
				Iron	2600		mg/kg	10.7
				Magnesium	5980		mg/kg	21.4
				Manganese	41		mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B325-1060	0436170011SA	60-62	Nickel	3.7	J	mg/kg	4.3
				Potassium	758		mg/kg	535
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	535
				Tin		U	mg/kg	10.7
				Vanadium	11.9		mg/kg	1.1
				Zinc	7.7		mg/kg	2.1
				Arsenic	0.79		mg/kg	0.54
				Lead	2.1		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		R	mg/kg	
	CAN113-B326-1021	0436190001SA	21.5-23	Aluminum	7090		mg/kg	21.9
				Antimony		UJ	mg/kg	13.1
				Barium	187		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		UJ	mg/kg	1.1
				Calcium	163000		mg/kg	43.8
				Chromium	11.1	J	mg/kg	2.2
				Cobalt	2.2		mg/kg	2.2
				Copper	2.4	J	mg/kg	4.4
				Iron	4560	J	mg/kg	21.9
				Magnesium	5700	J	mg/kg	43.8
				Manganese	48.5	J	mg/kg	2.2
				Nickel	7.1	J	mg/kg	
				Potassium	1090		mg/kg	[illegible]
				Silver		U	mg/kg	2.2
				Sodium		U	mg/kg	1090
				Vanadium	16.3		mg/kg	2.2
				Zinc	11.8	J	mg/kg	4.4
				Arsenic	0.95		mg/kg	0.55
				Lead	3	J	mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B326-1027	0436190003SA	27-29	Aluminum	6720		mg/kg	22.1
				Antimony		UJ	mg/kg	13.2
				Barium	342		mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		UJ	mg/kg	1.1
				Calcium	167000		mg/kg	44.1
				Chromium	11.6	J	mg/kg	2.2
				Cobalt	2.2		mg/kg	2.2
				Copper	2.7	J	mg/kg	4.4
				Iron	4600	J	mg/kg	22.1
				Magnesium	5390	J	mg/kg	44.1
				Manganese	51.9	J	mg/kg	2.2
				Nickel	7	J	mg/kg	8.8
				Potassium	1160		mg/kg	1100
				Silver		U	mg/kg	2.2
				Sodium		UJ	mg/kg	1100
				Vanadium	15.7		mg/kg	2.2
				Zinc	11.8	J	mg/kg	
				Arsenic	1.3		mg/kg	
				Lead	4.2	J	mg/kg	0.55
				Mercury		U	mg/kg	0.11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B326-1027	0436190003SA	27-29	Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B326-1037	0436190004SA	37-39	Aluminum	3520		mg/kg	10.8
				Antimony		UJ	mg/kg	6.5
				Barium	43.9		mg/kg	1.1
				Beryllium		U	mg/kg	0.22
				Cadmium		UJ	mg/kg	0.54
				Calcium	62600		mg/kg	21.5
				Chromium	3.4	J	mg/kg	1.1
				Cobalt	1.5		mg/kg	1.1
				Copper	1.5	J	mg/kg	2.2
				Iron	2560	J	mg/kg	10.8
				Magnesium	4180	J	mg/kg	21.5
				Manganese	24.1	J	mg/kg	1.1
				Nickel	4.3	J	mg/kg	4.3
				Potassium	735		mg/kg	538
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	538
				Vanadium	10.6		mg/kg	1.1
				Zinc	5.7	J	mg/kg	2.2
				Arsenic	0.73		mg/kg	0.54
				Lead	1.7	J	mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B326-1047	0436190005SA	47-47.5	Aluminum	4340		mg/kg	11.1
				Antimony		UJ	mg/kg	6.7
				Barium	94.6		mg/kg	1.1
				Beryllium		U	mg/kg	0.22
				Cadmium		UJ	mg/kg	0.56
				Calcium	99300		mg/kg	22.2
				Chromium	15.6	J	mg/kg	1.1
				Cobalt	2.1		mg/kg	1.1
				Copper	4.3		mg/kg	2.2
				Iron	3370	J	mg/kg	11.1
				Magnesium	16300	J	mg/kg	22.2
				Manganese	52.8	J	mg/kg	1.1
				Nickel	5	J	mg/kg	4.4
				Potassium	679		mg/kg	555
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	555
				Vanadium	18.7		mg/kg	1.1
				Zinc	6.6	J	mg/kg	2.2
				Arsenic	0.49	J	mg/kg	1.1
				Lead	1.6	J	mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.2
	CAN113-B326-1055	0436190006SA	55-56.5	Aluminum	3210		mg/kg	10.6
				Antimony		UJ	mg/kg	6.3
				Barium	93.6		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.53
				Calcium	32600		mg/kg	21.1
				Chromium	10.2		mg/kg	1.1
				Cobalt	1.4		mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B326-1055	0436190006SA	55-56.5	Copper	2.3		mg/kg	2.1
				Iron	2640		mg/kg	10.6
				Magnesium	3980		mg/kg	21.1
				Manganese	46.6		mg/kg	1.1
				Nickel	3.2	J	mg/kg	4.2
				Potassium	585		mg/kg	528
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	528
				Tin		U	mg/kg	10.6
				Vanadium	9.4		mg/kg	1.1
				Zinc	6.1		mg/kg	2.1
				Arsenic	0.43	J	mg/kg	0.53
				Lead	1.3		mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		R	mg/kg	
	CAN113-B327-1021	0436190013SA	21-23	Aluminum	4410		mg/kg	10.8
				Antimony		UJ	mg/kg	6.5
				Barium	92		mg/kg	1.1
				Beryllium	0.31		mg/kg	0.22
				Cadmium		UJ	mg/kg	0.54
				Calcium	43800		mg/kg	21.6
				Chromium	7.1	J	mg/kg	1.1
				Cobalt	1.9		mg/kg	[illegible]
				Copper	3.4		mg/kg	
				Iron	5230	J	mg/kg	[illegible]
				Magnesium	2240	J	mg/kg	21.6
				Manganese	40.7	J	mg/kg	1.1
				Nickel	6.3	J	mg/kg	4.3
				Potassium	1380		mg/kg	541
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	541
				Vanadium	36.7		mg/kg	1.1
				Zinc	12.7	J	mg/kg	2.2
				Arsenic	3.9		mg/kg	0.54
				Lead	4.2	J	mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	0.54
	CAN113-B327-1024	0436190014SA	24.5-26.5	Aluminum	5030		mg/kg	10.7
				Antimony		UJ	mg/kg	6.4
				Barium	225		mg/kg	1.1
				Beryllium	0.3		mg/kg	0.21
				Cadmium		UJ	mg/kg	0.53
				Calcium	48200		mg/kg	21.4
				Chromium	8.5	J	mg/kg	1.1
				Cobalt	2.3		mg/kg	1.1
				Copper	4.2		mg/kg	2.1
				Iron	5230	J	mg/kg	10.7
				Magnesium	3200	J	mg/kg	21.4
				Manganese	95.6	J	mg/kg	1.1
				Nickel	6.2	J	mg/kg	4.3
				Potassium	1250		mg/kg	
				Silver		U	mg/kg	
				Sodium		U	mg/kg	534
				Vanadium	31.1		mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B327-1024	0436190014SA	24.5-26.5	Zinc	14.3	J	mg/kg	2.1
				Arsenic	4.4		mg/kg	0.53
				Lead	4	J	mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B327-1034	0436190015SA	34.5-36.5	Aluminum	6270		mg/kg	10.9
				Antimony		UJ	mg/kg	6.5
				Barium	164		mg/kg	1.1
				Beryllium	0.25		mg/kg	0.22
				Cadmium		UJ	mg/kg	0.54
				Calcium	57900		mg/kg	21.8
				Chromium	5.5	J	mg/kg	1.1
				Cobalt	0.98	J	mg/kg	1.1
				Copper	2.6		mg/kg	2.2
				Iron	4150	J	mg/kg	10.9
				Magnesium	9100	J	mg/kg	21.8
				Manganese	38	J	mg/kg	1.1
				Nickel	4.2	J	mg/kg	4.4
				Potassium	1100		mg/kg	545
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	545
				Vanadium	17.6		mg/kg	1.1
				Zinc	10.2	J	mg/kg	2.2
				Arsenic	1.2		mg/kg	0.54
				Lead	2.1	J	mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B327-1044	0436190016SA	44.5-46	Aluminum	3460		mg/kg	10.6
				Antimony		UJ	mg/kg	6.3
				Barium	135		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.53
				Calcium	51900		mg/kg	21.1
				Chromium	3.5	J	mg/kg	1.1
				Cobalt	1.5		mg/kg	1.1
				Copper	1.9	J	mg/kg	2.1
				Iron	2340	J	mg/kg	10.6
				Magnesium	6340	J	mg/kg	21.1
				Manganese	30.5	J	mg/kg	1.1
				Nickel	3.6	J	mg/kg	4.2
				Potassium	698		mg/kg	528
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	528
				Vanadium	7.4		mg/kg	1.1
				Zinc	6.6	J	mg/kg	2.1
				Arsenic	0.32	J	mg/kg	1.1
				Lead	0.63	J	mg/kg	0.53
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	0.53
	CAN113-B327-1057	0436190017SA	57.5-58.1	Aluminum	3060		mg/kg	10.4
				Antimony		UJ	mg/kg	6.3
				Barium	31		mg/kg	1
				Beryllium		U	mg/kg	0.21

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B327-1057	0436190017SA	57.5-58.1	Cadmium		UJ	mg/kg	0.52
				Calcium	68700		mg/kg	20.9
				Chromium	5.2		mg/kg	1
				Cobalt	1.3		mg/kg	1
				Copper	1.8	J	mg/kg	2.1
				Iron	2180		mg/kg	10.4
				Magnesium	5060		mg/kg	20.9
				Manganese	36.3		mg/kg	1
				Nickel	2.8	J	mg/kg	4.2
				Potassium	535		mg/kg	522
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	522
				Tin		U	mg/kg	10.4
				Vanadium	8.7		mg/kg	1
				Zinc	5.3		mg/kg	2.1
				Arsenic	0.49	J	mg/kg	1
				Lead	1.4		mg/kg	1
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		R	mg/kg	
	CAN113-B328-1000	0436180006SA	0-.5	Aluminum	9700		mg/kg	10.4
				Antimony		R	mg/kg	
				Barium	281	J	mg/kg	1
				Beryllium	0.46		mg/kg	0.21
				Cadmium		UJ	mg/kg	
				Calcium	78500		mg/kg	[illegible]
				Chromium	7.4		mg/kg	1
				Cobalt	3.3		mg/kg	1
				Copper	6.3		mg/kg	2.1
				Iron	7520		mg/kg	10.4
				Magnesium	3050		mg/kg	20.7
				Manganese	130	J	mg/kg	1
				Nickel	7.5		mg/kg	4.1
				Potassium	2210		mg/kg	518
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	518
				Vanadium	17.3		mg/kg	1
				Zinc	21.8		mg/kg	2.1
				Arsenic	1.7		mg/kg	0.52
				Lead	9.6		mg/kg	1
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		U	mg/kg	1
	CAN113-B328-1020	0436180007SA	20-21.5	Aluminum	3720	J	mg/kg	55.5
				Antimony		UJ	mg/kg	33.3
				Barium	201	J	mg/kg	5.6
				Beryllium		U	mg/kg	1.1
				Cadmium		U	mg/kg	2.8
				Calcium	284000		mg/kg	111
				Chromium		U	mg/kg	5.6
				Cobalt		U	mg/kg	5.6
				Copper	3.3	J	mg/kg	11.1
				Iron	2360	J	mg/kg	
				Magnesium	4610		mg/kg	
				Manganese	22.1	J	mg/kg	5.6
				Nickel		U	mg/kg	22.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B328-1020	0436180007SA	20-21.5	Potassium	855	J	mg/kg	2780
				Silver		UJ	mg/kg	5.6
				Sodium		U	mg/kg	2780
				Vanadium	9.4		mg/kg	5.6
				Zinc	10.3	J	mg/kg	11.1
				Arsenic	0.93		mg/kg	0.56
				Lead	1.8		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.2
	CAN113-B328-1025	0436180008SA	25-27	Aluminum	7070	J	mg/kg	22.4
				Antimony		UJ	mg/kg	13.5
				Barium	170	J	mg/kg	2.2
				Beryllium	0.29	J	mg/kg	0.45
				Cadmium		U	mg/kg	1.1
				Calcium	131000		mg/kg	44.8
				Chromium	4.4		mg/kg	2.2
				Cobalt	3		mg/kg	2.2
				Copper	2.4	J	mg/kg	4.5
				Iron	4150	J	mg/kg	22.4
				Magnesium	6380		mg/kg	44.8
				Manganese	39.1	J	mg/kg	2.2
				Nickel	6.9	J	mg/kg	9
				Potassium	1100	J	mg/kg	1120
				Silver		UJ	mg/kg	2.2
				Sodium		U	mg/kg	1120
				Vanadium	13.5		mg/kg	2.2
				Zinc	10.5		mg/kg	4.5
				Arsenic	0.81		mg/kg	0.56
				Lead	2.7		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B328-1035	0436180009SA	35-37	Aluminum	6250	J	mg/kg	10.9
				Antimony		UJ	mg/kg	6.5
				Barium	95	J	mg/kg	1.1
				Beryllium	0.21	J	mg/kg	0.22
				Cadmium		UJ	mg/kg	0.54
				Calcium	61100		mg/kg	21.8
				Chromium	4.6		mg/kg	1.1
				Cobalt	1.1		mg/kg	1.1
				Copper	1.8	J	mg/kg	2.2
				Iron	4230	J	mg/kg	10.9
				Magnesium	5860		mg/kg	21.8
				Manganese	38.1	J	mg/kg	1.1
				Nickel	3.5	J	mg/kg	4.4
				Potassium	1120		mg/kg	544
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	544
				Vanadium	15.9		mg/kg	1.1
				Zinc	10		mg/kg	2.2
				Arsenic	0.52	J	mg/kg	1.1
				Lead	2.5		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B328-1045	0436180010SA	45-47	Aluminum	4600	J	mg/kg	10.4
				Antimony		UJ	mg/kg	6.2
				Barium	49.7	J	mg/kg	1
				Beryllium	0.13	J	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.52
				Calcium	27000		mg/kg	20.8
				Chromium	3.9		mg/kg	1
				Cobalt	1.6		mg/kg	1
				Copper	1.5	J	mg/kg	2.1
				Iron	3590	J	mg/kg	10.4
				Magnesium	3760		mg/kg	20.8
				Manganese	44.3	J	mg/kg	1
				Nickel	3.7	J	mg/kg	4.2
				Potassium	963		mg/kg	521
				Silver		UJ	mg/kg	1
				Sodium		U	mg/kg	521
				Vanadium	9.1		mg/kg	1
				Zinc	8		mg/kg	2.1
				Arsenic	0.43	J	mg/kg	0.52
				Lead	1.8		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	1
				Thallium		UJ	mg/kg	0.52
	CAN113-B328-1055	0436180011SA	55-57	Aluminum	4340		mg/kg	10.5
				Antimony		UJ	mg/kg	
				Barium	30.6		mg/kg	
				Beryllium	0.13	J	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.52
				Calcium	17100		mg/kg	21
				Chromium	3.9		mg/kg	1
				Cobalt	1.3		mg/kg	1
				Copper	1.6	J	mg/kg	2.1
				Iron	3320		mg/kg	10.5
				Magnesium	4060		mg/kg	21
				Manganese	42.6		mg/kg	1
				Nickel	2.5	J	mg/kg	4.2
				Potassium	853		mg/kg	524
				Silver		U	mg/kg	1
				Sodium		U	mg/kg	524
				Tin		U	mg/kg	10.5
				Vanadium	9.7		mg/kg	1
				Zinc	7.7		mg/kg	2.1
				Arsenic	0.36	J	mg/kg	1
				Lead	1.8		mg/kg	0.52
				Mercury		U	mg/kg	0.1
				Selenium		UJ	mg/kg	0.52
				Thallium		R	mg/kg	
	CAN113-B329-1014	0436180001SA	14-16	Aluminum	7560	J	mg/kg	11.3
				Antimony		UJ	mg/kg	6.8
				Barium	1920	J	mg/kg	1.1
				Beryllium	0.49		mg/kg	0.23
				Cadmium		U	mg/kg	0.56
				Calcium	74700		mg/kg	
				Chromium	6.1		mg/kg	
				Cobalt	2.2		mg/kg	1.1
				Copper	3.8		mg/kg	2.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B329-1014	0436180001SA	14-16	Iron	5590	J	mg/kg	11.3
				Magnesium	3650		mg/kg	22.6
				Manganese	74.3	J	mg/kg	1.1
				Nickel	8.3		mg/kg	4.5
				Potassium	2040		mg/kg	565
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	565
				Vanadium	16.3		mg/kg	1.1
				Zinc	13.4		mg/kg	2.3
				Arsenic	1.7		mg/kg	0.56
				Lead	5.8		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium	0.12	J	mg/kg	1.1
	CAN113-B329-1020	0436180002SA	20-22	Aluminum	6030	J	mg/kg	22.6
				Antimony		UJ	mg/kg	13.5
				Barium	922	J	mg/kg	2.3
				Beryllium	0.31	J	mg/kg	0.45
				Cadmium		U	mg/kg	1.1
				Calcium	186000		mg/kg	45.1
				Chromium	3.6		mg/kg	2.3
				Cobalt	1.9	J	mg/kg	2.3
				Copper	2.7	J	mg/kg	4.5
				Iron	3570	J	mg/kg	22.6
				Magnesium	5330		mg/kg	45.1
				Manganese	33.7	J	mg/kg	2.3
				Nickel	5.6	J	mg/kg	9
				Potassium	1290		mg/kg	1130
				Silver		UJ	mg/kg	2.3
				Sodium		U	mg/kg	1130
				Vanadium	10.9		mg/kg	2.3
				Zinc	10.2		mg/kg	4.5
				Arsenic	0.89		mg/kg	0.56
				Lead	2.9		mg/kg	0.56
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.3
	CAN113-B329-1030	0436180003SA	30-32	Aluminum	5290	J	mg/kg	10.9
				Antimony		UJ	mg/kg	6.5
				Barium	130	J	mg/kg	1.1
				Beryllium	0.16	J	mg/kg	0.22
				Cadmium		UJ	mg/kg	0.54
				Calcium	78500		mg/kg	21.8
				Chromium	4.7		mg/kg	1.1
				Cobalt	1.4		mg/kg	1.1
				Copper	1.7	J	mg/kg	2.2
				Iron	3610	J	mg/kg	10.9
				Magnesium	5800		mg/kg	21.8
				Manganese	36.3	J	mg/kg	1.1
				Nickel	4.6		mg/kg	4.4
				Potassium	886		mg/kg	544
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	544
				Vanadium	13.7		mg/kg	1.1
				Zinc	8		mg/kg	2.2
				Arsenic	0.74		mg/kg	0.54

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B329-1030	0436180003SA	30-32	Lead	2.3		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B329-1040	0436180004SA	40-42	Aluminum	4540	J	mg/kg	22
				Antimony		UJ	mg/kg	13.2
				Barium	90.1	J	mg/kg	2.2
				Beryllium		U	mg/kg	0.44
				Cadmium		U	mg/kg	1.1
				Calcium	124000		mg/kg	44
				Chromium	3.9		mg/kg	2.2
				Cobalt	2.2		mg/kg	2.2
				Copper	2.1	J	mg/kg	4.4
				Iron	3320	J	mg/kg	22
				Magnesium	5150		mg/kg	44
				Manganese	41.8	J	mg/kg	2.2
				Nickel	4.5	J	mg/kg	8.8
				Potassium	757	J	mg/kg	1100
				Silver		UJ	mg/kg	2.2
				Sodium		U	mg/kg	1100
				Vanadium	9		mg/kg	2.2
				Zinc	8.6		mg/kg	4.4
				Arsenic	0.84		mg/kg	0.55
				Lead	1.8		mg/kg	0.55
				Mercury		U	mg/kg	
				Selenium		UJ	mg/kg	[illegible]
				Thallium	0.13	J	mg/kg	1.1
	CAN113-B329-1050	0436180005SA	50-51.8	Aluminum	4080		mg/kg	11
				Antimony		UJ	mg/kg	6.6
				Barium	50.9		mg/kg	1.1
				Beryllium	0.14	J	mg/kg	0.22
				Cadmium		UJ	mg/kg	0.55
				Calcium	62000		mg/kg	21.9
				Chromium	5.3		mg/kg	1.1
				Cobalt	1	J	mg/kg	1.1
				Copper	1.6	J	mg/kg	2.2
				Iron	3440		mg/kg	11
				Magnesium	5410		mg/kg	21.9
				Manganese	36.7		mg/kg	1.1
				Nickel	4.1	J	mg/kg	4.4
				Potassium	679		mg/kg	548
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	548
				Tin		U	mg/kg	11
				Vanadium	9.7		mg/kg	1.1
				Zinc	7.8		mg/kg	2.2
				Arsenic	0.56		mg/kg	0.55
				Lead	2		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		R	mg/kg	
	CAN113-B330-1014	0436190007SA	14.5-16.5	Aluminum	7330	J	mg/kg	11.2
				Antimony		UJ	mg/kg	
				Barium	279	J	mg/kg	
				Beryllium	0.48		mg/kg	0.22
				Cadmium		UJ	mg/kg	0.56

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B330-1014	0436190007SA	14.5-16.5	Calcium	69200		mg/kg	22.3
				Chromium	7.6		mg/kg	1.1
				Cobalt	2.9		mg/kg	1.1
				Copper	4.3		mg/kg	2.2
				Iron	6560	J	mg/kg	11.2
				Magnesium	4500		mg/kg	22.3
				Manganese	81	J	mg/kg	1.1
				Nickel	23.9		mg/kg	4.5
				Potassium	2200		mg/kg	559
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	559
				Vanadium	18.1		mg/kg	1.1
				Zinc	13.7		mg/kg	2.2
				Arsenic	1.6		mg/kg	0.56
				Lead	5.4		mg/kg	2.8
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B330-1020	0436190008SA	20-21.3	Aluminum	3690	J	mg/kg	54.6
				Antimony		UJ	mg/kg	32.8
				Barium	3470	J	mg/kg	5.5
				Beryllium		U	mg/kg	1.1
				Cadmium		UJ	mg/kg	2.7
				Calcium	229000		mg/kg	109
				Chromium		U	mg/kg	5.5
				Cobalt		U	mg/kg	5.5
				Copper		U	mg/kg	10.9
				Iron	2690	J	mg/kg	54.6
				Magnesium	4450		mg/kg	109
				Manganese	22.6	J	mg/kg	5.5
				Nickel		U	mg/kg	21.8
				Potassium	683	J	mg/kg	2730
				Silver		UJ	mg/kg	5.5
				Sodium		UJ	mg/kg	2730
				Vanadium	9.9		mg/kg	5.5
				Zinc	8.5	J	mg/kg	10.9
				Arsenic	0.82		mg/kg	0.55
				Lead	1.9		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	2.2
	CAN113-B330-1030	0436190010SA	30-32	Aluminum	4680	J	mg/kg	11
				Antimony		UJ	mg/kg	6.6
				Barium	168	J	mg/kg	1.1
				Beryllium		U	mg/kg	0.22
				Cadmium		UJ	mg/kg	0.55
				Calcium	100000		mg/kg	22
				Chromium	4.9		mg/kg	1.1
				Cobalt	1.4		mg/kg	1.1
				Copper	1.8	J	mg/kg	2.2
				Iron	2960	J	mg/kg	11
				Magnesium	7580		mg/kg	22
				Manganese	28.3	J	mg/kg	1.1
				Nickel	3.7	J	mg/kg	4.4
				Potassium	729		mg/kg	550
				Silver		UJ	mg/kg	1.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
MET	CAN113-B330-1030	0436190010SA	30-32	Sodium		U	mg/kg	550
				Vanadium	17.1		mg/kg	1.1
				Zinc	7.1		mg/kg	2.2
				Arsenic	0.54	J	mg/kg	1.1
				Lead	2.1		mg/kg	0.55
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	11
				Thallium		UJ	mg/kg	1.1
	CAN113-B330-1040	0436190011SA	40-42	Aluminum	4240	J	mg/kg	10.7
				Antimony		UJ	mg/kg	6.4
				Barium	125	J	mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.54
				Calcium	45100		mg/kg	21.4
				Chromium	4.1		mg/kg	1.1
				Cobalt	1.4		mg/kg	1.1
				Copper	2.3		mg/kg	2.1
				Iron	2830	J	mg/kg	10.7
				Magnesium	5720		mg/kg	21.4
				Manganese	34.8	J	mg/kg	1.1
				Nickel	3.8	J	mg/kg	4.3
				Potassium	887		mg/kg	535
				Silver		UJ	mg/kg	1.1
				Sodium		U	mg/kg	535
				Vanadium	7.5		mg/kg	
				Zinc	7.8		mg/kg	
				Arsenic	0.55		mg/kg	0.54
				Lead	1.4		mg/kg	0.54
				Mercury		U	mg/kg	0.11
				Selenium		UJ	mg/kg	1.1
				Thallium		UJ	mg/kg	1.1
	CAN113-B330-1050	0436190012SA	50-52	Aluminum	3450		mg/kg	10.6
				Antimony		UJ	mg/kg	6.3
				Barium	26.8		mg/kg	1.1
				Beryllium		U	mg/kg	0.21
				Cadmium		UJ	mg/kg	0.53
				Calcium	14900		mg/kg	21.2
				Chromium	4.1		mg/kg	1.1
				Cobalt	1.3		mg/kg	1.1
				Copper	1.5	J	mg/kg	2.1
				Iron	2710		mg/kg	10.6
				Magnesium	4400		mg/kg	21.2
				Manganese	33.4		mg/kg	1.1
				Nickel	3.1	J	mg/kg	4.2
				Potassium	707		mg/kg	529
				Silver		U	mg/kg	1.1
				Sodium		U	mg/kg	529
				Tin		U	mg/kg	10.6
				Vanadium	7.9		mg/kg	1.1
				Zinc	6.1		mg/kg	2.1
				Arsenic	0.34	J	mg/kg	1.1
				Lead	1.2		mg/kg	0.53
				Mercury		U	mg/kg	
				Selenium		UJ	mg/kg	
				Thallium		R	mg/kg	

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
OPP	CAN113-B301-0581	0437820014SA	-	Dimethoate		U	ug/L	0.5
				Disulfoton		U	ug/L	0.25
				Ethyl parathion		U	ug/L	0.25
				Famphur		U	ug/L	1
				Methyl parathion		U	ug/L	0.25
				O,O,O-Triethylphosphoro-thioate		U	ug/L	0.25
				Phorate (Thimet)		U	ug/L	0.25
				Sulfotepp		U	ug/L	0.25
				Thionazin		U	ug/L	0.25
	CAN113-B301-1063	0437820006SA	63-64.8	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	9
				Ethyl parathion		U	ug/kg	9
				Famphur		U	ug/kg	36
				Methyl parathion		U	ug/kg	9
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	9
				Phorate (Thimet)		U	ug/kg	9
				Sulfotepp		U	ug/kg	9
				Thionazin		U	ug/kg	9
	CAN113-B302-1050	0437820011SA	49-51	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.7
				Ethyl parathion		U	ug/kg	8.7
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.7
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.7
				Phorate (Thimet)		U	ug/kg	8.7
				Sulfotepp		U	ug/kg	8.7
				Thionazin		U	ug/kg	8.7
	CAN113-B303-1058	0437630005SA	58-59.9	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.6
				Ethyl parathion		U	ug/kg	8.6
				Famphur		U	ug/kg	34
				Methyl parathion		U	ug/kg	8.6
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.6
				Phorate (Thimet)		U	ug/kg	8.6
				Sulfotepp		U	ug/kg	8.6
				Thionazin		U	ug/kg	8.6
	CAN113-B304-1055	0435620011SA	55-57	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.9
				Ethyl parathion		U	ug/kg	8.9
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.9
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.9
				Phorate (Thimet)		U	ug/kg	8.9
				Sulfotepp		U	ug/kg	8.9
				Thionazin		U	ug/kg	8.9
	CAN113-B305-1059	0435620005SA	59.5-60.8	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.6
				Ethyl parathion		U	ug/kg	8.6
				Famphur		U	ug/kg	34
				Methyl parathion		U	ug/kg	8.6
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.6
				Phorate (Thimet)		U	ug/kg	8.6
				Sulfotepp		U	ug/kg	8.6
				Thionazin		U	ug/kg	8.6
	CAN113-B306-1055	0437630016SA	55-57.5	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
OPP	CAN113-B306-1055	0437630016SA	55-57.5	Ethyl parathion		U	ug/kg	8.7
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.7
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.7
				Phorate (Thimet)		U	ug/kg	8.7
				Sulfotepp		U	ug/kg	8.7
				Thionazin		U	ug/kg	8.7
	CAN113-B307-1059	0436080006SA	59-60.9	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8
				Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8
	CAN113-B308-1055	0436080013SA	55-57	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.9
				Ethyl parathion		U	ug/kg	8.9
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.9
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.9
				Phorate (Thimet)		U	ug/kg	8.9
				Sulfotepp		U	ug/kg	8.9
				Thionazin		U	ug/kg	
	CAN113-B309-1053	0437350011SA	53-54.3	Dimethoate		U	ug/kg	[illegible]
				Disulfoton		U	ug/kg	8.9
				Ethyl parathion		U	ug/kg	8.9
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.9
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.9
				Phorate (Thimet)		U	ug/kg	8.9
				Sulfotepp		U	ug/kg	8.9
				Thionazin		U	ug/kg	8.9
	CAN113-B310-1064	0435300007SA	66-65	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.7
				Ethyl parathion		U	ug/kg	8.7
				Famphur		U	ug/kg	34
				Methyl parathion		U	ug/kg	8.7
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.7
				Phorate (Thimet)		U	ug/kg	8.7
				Sulfotepp		U	ug/kg	8.7
				Thionazin		U	ug/kg	8.7
	CAN113-B311-1065	0435620012SA	65-66.4	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8
				Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8
	CAN113-B312-1065	0437200005SA	65-65.6	Dimethoate		U	ug/kg	
				Disulfoton		U	ug/kg	
				Ethyl parathion		U	ug/kg	8.7
				Famphur		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
OPP	CAN113-B312-1065	0437200005SA	65-65.6	Methyl parathion		U	ug/kg	8.7
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.7
				Phorate (Thimet)		U	ug/kg	8.7
				Sulfotepp		U	ug/kg	8.7
				Thionazin		U	ug/kg	8.7
	CAN113-B313-1062	0437630011SA	62-64.5	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8
				Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8
	CAN113-B314-1067	0437200010SA	67-68.5	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8
				Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8
	CAN113-B315-1055	0437350005SA	55-55.8	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.9
				Ethyl parathion		U	ug/kg	8.9
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.9
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.9
				Phorate (Thimet)		U	ug/kg	8.9
				Sulfotepp		U	ug/kg	8.9
				Thionazin		U	ug/kg	8.9
	CAN113-B316-1080	0436970013SA	80-81.5	Dimethoate		UJ	ug/kg	18
				Disulfoton		UJ	ug/kg	8.6
				Ethyl parathion		UJ	ug/kg	8.6
				Famphur		UJ	ug/kg	34
				Methyl parathion		UJ	ug/kg	8.6
				O,O,O-Triethylphosphoro-thioate		UJ	ug/kg	8.6
				Phorate (Thimet)		UJ	ug/kg	8.6
				Sulfotepp		UJ	ug/kg	8.6
				Thionazin		UJ	ug/kg	8.6
	CAN113-B317-1053	0436970018SA	53-55	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.6
				Ethyl parathion		U	ug/kg	8.6
				Famphur		U	ug/kg	34
				Methyl parathion		U	ug/kg	8.6
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.6
				Phorate (Thimet)		U	ug/kg	8.6
				Sulfotepp		U	ug/kg	8.6
				Thionazin		U	ug/kg	8.6
	CAN113-B318-1063	0437200018SA	63-63.8	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
OPP	CAN113-B318-1063	0437200018SA	63-63.8	Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8
	CAN113-B319-1053	0437200024SA	53-56.5	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8
				Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8
	CAN113-B320-1052	0436970005SA	52-53	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.7
				Ethyl parathion		U	ug/kg	8.7
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.7
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.7
				Phorate (Thimet)		U	ug/kg	8.7
				Sulfotepp		U	ug/kg	8.7
				Thionazin		U	ug/kg	8.7
	CAN113-B321-1057	0437350016SA	57-58.8	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.9
				Ethyl parathion		U	ug/kg	8.9
				Famphur		U	ug/kg	
				Methyl parathion		U	ug/kg	[illegible]
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.9
				Phorate (Thimet)		U	ug/kg	8.9
				Sulfotepp		U	ug/kg	8.9
				Thionazin		U	ug/kg	8.9
	CAN113-B322-1056	0436170005SA	56.5-58.5	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8
				Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8
	CAN113-B323-1054	0436170017SA	54-55.1	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.7
				Ethyl parathion		U	ug/kg	8.7
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.7
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.7
				Phorate (Thimet)		U	ug/kg	8.7
				Sulfotepp		U	ug/kg	8.7
				Thionazin		U	ug/kg	8.7
	CAN113-B324-1059	0437200015SA	59-60	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.9
				Ethyl parathion		U	ug/kg	8.9
				Famphur		U	ug/kg	36
				Methyl parathion		U	ug/kg	
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	
				Phorate (Thimet)		U	ug/kg	8.9
				Sulfotepp		U	ug/kg	8.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
OPP	CAN113-B324-1059	0437200015SA	59-60	Thionazin		U	ug/kg	8.9
	CAN113-B325-1060	0436170011SA	60-62	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.9
				Ethyl parathion		U	ug/kg	8.9
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.9
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.9
				Phorate (Thimet)		U	ug/kg	8.9
				Sulfotepp		U	ug/kg	8.9
				Thionazin		U	ug/kg	8.9
	CAN113-B326-1055	0436190006SA	55-56.5	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8
				Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8
	CAN113-B327-1057	0436190017SA	57.5-58.1	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.7
				Ethyl parathion		U	ug/kg	8.7
				Famphur		U	ug/kg	34
				Methyl parathion		U	ug/kg	8.7
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.7
				Phorate (Thimet)		U	ug/kg	8.7
				Sulfotepp		U	ug/kg	8.7
				Thionazin		U	ug/kg	8.7
	CAN113-B328-1055	0436180011SA	55-57	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.7
				Ethyl parathion		U	ug/kg	8.7
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.7
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.7
				Phorate (Thimet)		U	ug/kg	8.7
				Sulfotepp		U	ug/kg	8.7
				Thionazin		U	ug/kg	8.7
	CAN113-B329-1050	0436180005SA	50-51.8	Dimethoate		U	ug/kg	19
				Disulfoton		U	ug/kg	9.1
				Ethyl parathion		U	ug/kg	9.1
				Famphur		U	ug/kg	36
				Methyl parathion		U	ug/kg	9.1
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	9.1
				Phorate (Thimet)		U	ug/kg	9.1
				Sulfotepp		U	ug/kg	9.1
				Thionazin		U	ug/kg	9.1
	CAN113-B330-1050	0436190012SA	50-52	Dimethoate		U	ug/kg	18
				Disulfoton		U	ug/kg	8.8
				Ethyl parathion		U	ug/kg	8.8
				Famphur		U	ug/kg	35
				Methyl parathion		U	ug/kg	8.8
				O,O,O-Triethylphosphoro-thioate		U	ug/kg	8.8
				Phorate (Thimet)		U	ug/kg	8.8
				Sulfotepp		U	ug/kg	8.8
				Thionazin		U	ug/kg	8.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B301-0581	0437820014SA	-	4,4'-DDD		U	ug/L	0.1
				4,4'-DDE		U	ug/L	0.1
				4,4'-DDT		U	ug/L	0.1
				Aldrin		U	ug/L	0.05
				alpha-BHC		U	ug/L	0.05
				alpha-Chlordane		U	ug/L	0.05
				Aroclor 1016		U	ug/L	1
				Aroclor 1221		U	ug/L	1
				Aroclor 1232		U	ug/L	1
				Aroclor 1242		U	ug/L	1
				Aroclor 1248		U	ug/L	1
				Aroclor 1254		U	ug/L	1
				Aroclor 1260		U	ug/L	1
				beta-BHC		U	ug/L	0.05
				Chlorobenzilate		U	ug/L	0.1
				delta-BHC		U	ug/L	0.05
				Diallate		U	ug/L	1
				Dieldrin		U	ug/L	0.1
				Endosulfan I		U	ug/L	0.05
				Endosulfan II		U	ug/L	0.1
				Endosulfan sulfate		U	ug/L	0.1
				Endrin		U	ug/L	0.1
				Endrin aldehyde		U	ug/L	0.1
				Endrin ketone		U	ug/L	0.1
				gamma-BHC (Lindane)		U	ug/L	
				gamma-Chlordane		U	ug/L	[illegible]
				Heptachlor		U	ug/L	0.05
				Heptachlor epoxide		U	ug/L	0.05
				Isodrin		U	ug/L	0.1
				Kepone		U	ug/L	1
				Methoxychlor		U	ug/L	0.5
				Toxaphene		U	ug/L	5
	CAN113-B301-1000	0437820001SA	0-.5	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.7
				alpha-BHC		U	ug/kg	1.7
				alpha-Chlordane		U	ug/kg	1.7
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.7
				delta-BHC		U	ug/kg	1.7
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.7
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	
				gamma-BHC (Lindane)		U	ug/kg	
				gamma-Chlordane		U	ug/kg	1.7
				Heptachlor		U	ug/kg	1.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B301-1000	0437820001SA	0-.5	Heptachlor epoxide		U	ug/kg	1.7
				Methoxychlor		U	ug/kg	17
				Toxaphene		U	ug/kg	170
	CAN113-B301-1001	0437820012SA		4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B301-1028	0437820002SA	28-30	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B301-1028	0437820002SA	28-30	Toxaphene		U	ug/kg	190
	CAN113-B301-1034	0437820003SA	34-36	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	
				Heptachlor epoxide		U	ug/kg	[illegible]
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B301-1045	0437820004SA	45-47	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	180
	CAN113-B301-1055	0437820005SA	55-56.9	4,4'-DDD		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B301-1055	0437820005SA	55-56.9	4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B301-1063	0437820006SA	63-64.8	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.6
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	36
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin aldehyde		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.6
				Kepone		U	ug/kg	36

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B301-1063	0437820006SA	63-64.8	Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B302-1014	0437820007SA	14-16	4,4'-DDD		U	ug/kg	3.8
				4,4'-DDE		U	ug/kg	3.8
				4,4'-DDT		U	ug/kg	3.8
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	38
				Aroclor 1221		U	ug/kg	38
				Aroclor 1232		U	ug/kg	38
				Aroclor 1242		U	ug/kg	38
				Aroclor 1248		U	ug/kg	38
				Aroclor 1254		U	ug/kg	38
				Aroclor 1260		U	ug/kg	38
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.8
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.8
				Endosulfan sulfate		U	ug/kg	3.8
				Endrin		U	ug/kg	3.8
				Endrin ketone		U	ug/kg	3.8
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	
				Heptachlor		U	ug/kg	[illegible]
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B302-1020	0437820008SA	20-22	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	
				Heptachlor epoxide		U	ug/kg	
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B302-1030	0437820009SA	30-31.5	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B302-1040	0437820010SA	40-41.8	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B302-1050	0437820011SA	49-51	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B302-1050	0437820011SA	49-51	4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B303-1023	0437630001SA	23-25	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	
				Heptachlor		U	ug/kg	
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B303-1023	0437630001SA	23-25	Toxaphene		U	ug/kg	180
	CAN113-B303-1028	0437630002SA	28-30	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B303-1040	0437630003SA	40-42	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B303-1050	0437630004SA	50-51.4	4,4'-DDD		U	ug/kg	3.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B303-1050	0437630004SA	50-51.4	4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	[illegible]
	CAN113-B303-1058	0437630005SA	58-59.9	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.4
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	34
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin aldehyde		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	
				Heptachlor epoxide		U	ug/kg	
				Isodrin		U	ug/kg	3.4
				Kepone		U	ug/kg	34

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B303-1058	0437630005SA	58-59.9	Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B304-1000	0435620006SA	0-.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B304-1020	0435620007SA	20-22	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B304-1025	0435620008SA	25-27	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	
				Methoxychlor		U	ug/kg	[illegible]
				Toxaphene		U	ug/kg	180
	CAN113-B304-1035	0435620009SA	35-36.3	4,4'-DDD		U	ug/kg	3.8
				4,4'-DDE		U	ug/kg	3.8
				4,4'-DDT		U	ug/kg	3.8
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	38
				Aroclor 1221		U	ug/kg	38
				Aroclor 1232		U	ug/kg	38
				Aroclor 1242		U	ug/kg	38
				Aroclor 1248		U	ug/kg	38
				Aroclor 1254		U	ug/kg	38
				Aroclor 1260		U	ug/kg	38
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.8
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.8
				Endosulfan sulfate		U	ug/kg	3.8
				Endrin		U	ug/kg	3.8
				Endrin ketone		U	ug/kg	3.8
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	
	CAN113-B304-1045	0435620010SA	45-47	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B304-1045	0435620010SA	45-47	4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B304-1055	0435620011SA	55-57	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B304-1055	0435620011SA	55-57	Toxaphene		U	ug/kg	180
	CAN113-B305-1024	0435620001SA	24.5-26.5	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B305-1029	0435620002SA	29.5-31.5	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	
				Methoxychlor		U	ug/kg	[illegible]
				Toxaphene		U	ug/kg	190
	CAN113-B305-1039	0435620003SA	39.5-40.3	4,4'-DDD		U	ug/kg	3.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B305-1039	0435620003SA	39.5-40.3	4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B305-1049	0435620004SA	49.5-51	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B305-1059	0435620005SA	59.5-60.8	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B305-1059	0435620005SA	59.5-60.8	Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.4
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	34
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin aldehyde		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	
				Isodrin		U	ug/kg	[illegible]
				Kepone		U	ug/kg	34
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B306-1020	0437630012SA	20-21.9	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	
				Heptachlor epoxide		U	ug/kg	
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B306-1025	0437630013SA	25-27	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B306-1035	0437630014SA	35-37	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B306-1045	0437630015SA	45-47	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B306-1045	0437630015SA	45-47	4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	
	CAN113-B306-1055	0437630016SA	55-57.5	4,4'-DDD		U	ug/kg	[illegible]
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	
				Isodrin		U	ug/kg	
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B306-1055	0437630016SA	55-57.5	Toxaphene		U	ug/kg	180
	CAN113-B307-1000	0436080001SA	0-.5	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B307-1024	0436080002SA	24-26	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B307-1029	0436080003SA	29-30.8	4,4'-DDD		U	ug/kg	3.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B307-1029	0436080003SA	29-30.8	4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	100
	CAN113-B307-1039	0436080004SA	39-41	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	
	CAN113-B307-1049	0436080005SA	49-51	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B307-1049	0436080005SA	49-51	Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B307-1059	0436080006SA	59-60.9	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B308-1020	0436080008SA	20-22	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	
				Methoxychlor		U	ug/kg	[illegible]
				Toxaphene		U	ug/kg	190
	CAN113-B308-1025	0436080009SA	25-27	4,4'-DDD		U	ug/kg	3.9
				4,4'-DDE		U	ug/kg	3.9
				4,4'-DDT		U	ug/kg	3.9
				Aldrin		U	ug/kg	2
				alpha-BHC		U	ug/kg	2
				alpha-Chlordane		U	ug/kg	2
				Aroclor 1016		U	ug/kg	39
				Aroclor 1221		U	ug/kg	39
				Aroclor 1232		U	ug/kg	39
				Aroclor 1242		U	ug/kg	39
				Aroclor 1248		U	ug/kg	39
				Aroclor 1254		U	ug/kg	39
				Aroclor 1260		U	ug/kg	39
				beta-BHC		U	ug/kg	2
				delta-BHC		U	ug/kg	2
				Dieldrin		U	ug/kg	3.9
				Endosulfan I		U	ug/kg	2
				Endosulfan II		U	ug/kg	3.9
				Endosulfan sulfate		U	ug/kg	3.9
				Endrin		U	ug/kg	3.9
				Endrin ketone		U	ug/kg	3.9
				gamma-BHC (Lindane)		U	ug/kg	2
				gamma-Chlordane		U	ug/kg	2
				Heptachlor		U	ug/kg	2
				Heptachlor epoxide		U	ug/kg	2
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	
	CAN113-B308-1035	0436080011SA	35-35.9	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B308-1035	0436080011SA	35-35.9	4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B308-1045	0436080012SA	45-47	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B308-1055	0436080013SA	55-57	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B308-1055	0436080013SA	55-57	alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B309-1018	0437350006SA	18-20	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	190
	CAN113-B309-1025	0437350007SA	25-26.5	4,4'-DDD		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B309-1025	0437350007SA	25-26.5	4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B309-1035	0437350008SA	35-36.9	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B309-1045	0437350010SA	45-47	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B309-1045	0437350010SA	45-47	Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B309-1053	0437350011SA	53-54.3	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	
				Kepone		U	ug/kg	
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B310-1000	0435300001SA	0-.5	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B310-1029	0435300003SA	29.5-31	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B310-1034	0435300004SA	34-35.3	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL	UNITS	DL
PEST/PCB	CAN113-B310-1034	0435300004SA	34-35.3	4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	
	CAN113-B310-1044	0435300005SA	44-46	4,4'-DDD		U	ug/kg	[illegible]
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B310-1054	0435300006SA	54-55	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B310-1054	0435300006SA	54-55	alpha-BHC		U	ug/kg	1.7
				alpha-Chlordane		U	ug/kg	1.7
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.7
				delta-BHC		U	ug/kg	1.7
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.7
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.7
				gamma-Chlordane		U	ug/kg	1.7
				Heptachlor		U	ug/kg	1.7
				Heptachlor epoxide		U	ug/kg	1.7
				Methoxychlor		U	ug/kg	17
				Toxaphene		U	ug/kg	170
	CAN113-B310-1064	0435300007SA	66-65	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.4
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	34
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin aldehyde		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.4
				Kepone		U	ug/kg	34
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B311-1031	0435300008SA	31-33	4,4'-DDD		U	ug/kg	3.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B311-1031	0435300008SA	31-33	4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	100
	CAN113-B311-1035	0435300009SA	35-35.8	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	
	CAN113-B311-1045	0435300010SA	45-47	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B311-1045	0435300010SA	45-47	Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B311-1055	0435300011SA	55-57	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B311-1065	0435620012SA	65-66.4	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B311-1065	0435620012SA	65-66.4	alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	
				Methoxychlor		U	ug/kg	[illegible]
				Toxaphene		U	ug/kg	180
	CAN113-B312-1027	0437200001SA	27.5-29.5	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	
	CAN113-B312-1034	0437200002SA	34-36	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B312-1034	0437200002SA	34-36	4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B312-1045	0437200003SA	45-47	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B312-1055	0437200004SA	55-57	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B312-1055	0437200004SA	55-57	alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B312-1065	0437200005SA	65-65.6	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	180
	CAN113-B313-1000	0437630006SA	0-.5	4,4'-DDD		U	ug/kg	3.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B313-1000	0437630006SA	0-.5	4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B313-1027	0437630007SA	27-29	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B313-1032	0437630008SA	32-34	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B313-1032	0437630008SA	32-34	Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B313-1040	0437630009SA	40-42	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	[illegible]
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B313-1050	0437630010SA	50-51.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B313-1050	0437630010SA	50-51.5	alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B313-1062	0437630011SA	62-64.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B314-1032	0437200006SA	32-33.9	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL	UNITS	DL
PEST/PCB	CAN113-B314-1032	0437200006SA	32-33.9	4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	
	CAN113-B314-1038	0437200007SA	38-39.1	4,4'-DDD		U	ug/kg	[illegible]
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B314-1045	0437200008SA	45-47	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	[illegible]
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B314-1045	0437200008SA	45-47	alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B314-1057	0437200009SA	57-60.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B314-1067	0437200010SA	67-68.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B314-1067	0437200010SA	67-68.5	Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	180
	CAN113-B315-1020	0437350001SA	20-22	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	
	CAN113-B315-1025	0437350002SA	25-27	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B315-1025	0437350002SA	25-27	Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B315-1035	0437350003SA	35-35.8	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B315-1045	0437350004SA	45-46.8	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B315-1045	0437350004SA	45-46.8	alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B315-1055	0437350005SA	55-55.8	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	[illegible]
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	
				Toxaphene		U	ug/kg	
	CAN113-B316-1000	0436970006SA	0-.5	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B316-1000	0436970006SA	0-.5	4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.7
				alpha-BHC		U	ug/kg	1.7
				alpha-Chlordane		U	ug/kg	1.7
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.7
				delta-BHC		U	ug/kg	1.7
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.7
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.7
				gamma-Chlordane		U	ug/kg	1.7
				Heptachlor		U	ug/kg	1.7
				Heptachlor epoxide		U	ug/kg	1.7
				Methoxychlor		U	ug/kg	17
				Toxaphene		U	ug/kg	170
	CAN113-B316-1045	0436970008SA	45-46.9	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254	75		ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B316-1050	0436970010SA	50-50.9	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B316-1050	0436970010SA	50-50.9	alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B316-1060	0436970011SA	60-60.9	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B316-1070	0436970012SA	70-70.8	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B316-1070	0436970012SA	70-70.8	Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B316-1080	0436970013SA	80-81.5	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.4
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	34
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin aldehyde		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.4
				Kepone		U	ug/kg	34
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B317-1019	0436970014SA	19-20.3	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B317-1019	0436970014SA	19-20.3	Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B317-1025	0436970015SA	25-26.5	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B317-1035	0436970016SA	35-36.3	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B317-1035	0436970016SA	35-36.3	alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B317-1045	0436970017SA	45-46.9	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B317-1053	0436970018SA	53-55	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B317-1053	0436970018SA	53-55	Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.4
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	34
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin aldehyde		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.4
				Kepone		U	ug/kg	34
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	
	CAN113-B318-1028	0436970019SA	28-29.9	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B318-1033	0436970020SA	33-35	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	3
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B318-1033	0436970020SA	33-35	alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B318-1045	0437200016SA	45-47	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B318-1055	0437200017SA	55-56.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B318-1055	0437200017SA	55-56.5	Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B318-1063	0437200018SA	63-63.8	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	[illegible]
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	
	CAN113-B319-1000	0437200019SA	0-.5	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	3.3
				4,4'-DDT		U	ug/kg	3.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B319-1000	0437200019SA	0-.5	Aldrin		U	ug/kg	1.7
				alpha-BHC		U	ug/kg	1.7
				alpha-Chlordane		U	ug/kg	1.7
				Aroclor 1016		U	ug/kg	33
				Aroclor 1221		U	ug/kg	33
				Aroclor 1232		U	ug/kg	33
				Aroclor 1242		U	ug/kg	33
				Aroclor 1248		U	ug/kg	33
				Aroclor 1254	25	J	ug/kg	33
				Aroclor 1260		U	ug/kg	33
				beta-BHC		U	ug/kg	1.7
				delta-BHC		U	ug/kg	1.7
				Dieldrin		U	ug/kg	3.3
				Endosulfan I		U	ug/kg	1.7
				Endosulfan II		U	ug/kg	3.3
				Endosulfan sulfate		U	ug/kg	3.3
				Endrin		U	ug/kg	3.3
				Endrin ketone		U	ug/kg	3.3
				gamma-BHC (Lindane)		U	ug/kg	1.7
				gamma-Chlordane		U	ug/kg	1.7
				Heptachlor		U	ug/kg	1.7
				Heptachlor epoxide		U	ug/kg	1.7
				Methoxychlor		U	ug/kg	17
				Toxaphene		U	ug/kg	170
	CAN113-B319-1018	0437200020SA	18-20	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B319-1025	0437200021SA	25-27	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B319-1025	0437200021SA	25-27	alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B319-1035	0437200022SA	35-35.9	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	[illegible]
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B319-1045	0437200023SA	45-47	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B319-1045	0437200023SA	45-47	Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B319-1053	0437200024SA	53-56.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B320-1016	0436970001SA	16-17.5	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B320-1016	0436970001SA	16-17.5	alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B320-1020	0436970002SA	20-22	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	[illegible]
				4,4'-DDT		U	ug/kg	[illegible]
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B320-1030	0436970003SA	30-32	4,4'-DDD		U	ug/kg	3.8
				4,4'-DDE		U	ug/kg	3.8
				4,4'-DDT		U	ug/kg	[illegible]
				Aldrin		U	ug/kg	[illegible]
				alpha-BHC		U	ug/kg	2
				alpha-Chlordane		U	ug/kg	2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B320-1030	0436970003SA	30-32	Aroclor 1016		U	ug/kg	38
				Aroclor 1221		U	ug/kg	38
				Aroclor 1232		U	ug/kg	38
				Aroclor 1242		U	ug/kg	38
				Aroclor 1248		U	ug/kg	38
				Aroclor 1254		U	ug/kg	38
				Aroclor 1260		U	ug/kg	38
				beta-BHC		U	ug/kg	2
				delta-BHC		U	ug/kg	2
				Dieldrin		U	ug/kg	3.8
				Endosulfan I		U	ug/kg	2
				Endosulfan II		U	ug/kg	3.8
				Endosulfan sulfate		U	ug/kg	3.8
				Endrin		U	ug/kg	3.8
				Endrin ketone		U	ug/kg	3.8
				gamma-BHC (Lindane)		U	ug/kg	2
				gamma-Chlordane		U	ug/kg	2
				Heptachlor		U	ug/kg	2
				Heptachlor epoxide		U	ug/kg	2
				Methoxychlor		U	ug/kg	20
				Toxaphene		U	ug/kg	200
	CAN113-B320-1040	0436970004SA	40-41.8	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B320-1052	0436970005SA	52-53	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B320-1052	0436970005SA	52-53	Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B321-1022	0437350012SA	22-22.9	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B321-1027	0437350013SA	27-29	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B321-1027	0437350013SA	27-29	alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B321-1035	0437350014SA	35-35.8	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B321-1045	0437350015SA	45-46.8	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B321-1045	0437350015SA	45-46.8	Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B321-1057	0437350016SA	57-58.8	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	[illegible]
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B322-1000	0436170012SA	0-.5	4,4'-DDD		U	ug/kg	
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B322-1000	0436170012SA	0-.5	alpha-BHC		U	ug/kg	1.7
				alpha-Chlordane		U	ug/kg	1.7
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.7
				delta-BHC		U	ug/kg	1.7
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.7
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.7
				gamma-Chlordane		U	ug/kg	1.7
				Heptachlor		U	ug/kg	1.7
				Heptachlor epoxide		U	ug/kg	1.7
				Methoxychlor		U	ug/kg	17
				Toxaphene		U	ug/kg	170
	CAN113-B322-1018	0436170001SA	18-20	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.7
				alpha-BHC		U	ug/kg	1.7
				alpha-Chlordane		U	ug/kg	1.7
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.7
				delta-BHC		U	ug/kg	1.7
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.7
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.7
				gamma-Chlordane		U	ug/kg	1.7
				Heptachlor		U	ug/kg	1.7
				Heptachlor epoxide		U	ug/kg	1.7
				Methoxychlor		U	ug/kg	17
				Toxaphene		U	ug/kg	170
	CAN113-B322-1025	0436170002SA	25-25.5	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B322-1025	0436170002SA	25-25.5	Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B322-1035	0436170003SA	35-36.2	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	[illegible]
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B322-1045	0436170004SA	45-45.9	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B322-1045	0436170004SA	45-45.9	Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B322-1056	0436170005SA	56.5-58.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B323-1019	0436170013SA	19-20.5	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B323-1019	0436170013SA	19-20.5	alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B323-1024	0436170014SA	24-26	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	[illegible]
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B323-1035	0436170015SA	35-36.3	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B323-1035	0436170015SA	35-36.3	Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B323-1045	0436170016SA	45-47	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B323-1054	0436170017SA	54-55.1	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B323-1054	0436170017SA	54-55.1	Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B324-1024	0437200011SA	24-26	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B324-1029	0437200012SA	29-29.8	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	[illegible]
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B324-1029	0437200012SA	29-29.8	Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B324-1040	0437200013SA	40-42	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B324-1050	0437200014SA	50-50.8	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL	UNITS	DL
PEST/PCB	CAN113-B324-1050	0437200014SA	50-50.8	Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B324-1059	0437200015SA	59-60	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.6
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	36
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin aldehyde		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.6
				Kepone		U	ug/kg	36
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B325-1000	0436170006SA	0-.5	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B325-1000	0436170006SA	0-.5	alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B325-1024	0436170007SA	24-26	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B325-1030	0436170008SA	30-30.9	4,4'-DDD		U	ug/kg	4
				4,4'-DDE		U	ug/kg	4
				4,4'-DDT		U	ug/kg	4
				Aldrin		U	ug/kg	2.1
				alpha-BHC		U	ug/kg	2.1
				alpha-Chlordane		U	ug/kg	2.1
				Aroclor 1016		U	ug/kg	40

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B325-1030	0436170008SA	30-30.9	Aroclor 1221		U	ug/kg	40
				Aroclor 1232		U	ug/kg	40
				Aroclor 1242		U	ug/kg	40
				Aroclor 1248		U	ug/kg	40
				Aroclor 1254		U	ug/kg	40
				Aroclor 1260		U	ug/kg	40
				beta-BHC		U	ug/kg	2.1
				delta-BHC		U	ug/kg	2.1
				Dieldrin		U	ug/kg	4
				Endosulfan I		U	ug/kg	2.1
				Endosulfan II		U	ug/kg	4
				Endosulfan sulfate		U	ug/kg	4
				Endrin		U	ug/kg	4
				Endrin ketone		U	ug/kg	4
				gamma-BHC (Lindane)		U	ug/kg	2.1
				gamma-Chlordane		U	ug/kg	2.1
				Heptachlor		U	ug/kg	2.1
				Heptachlor epoxide		U	ug/kg	2.1
				Methoxychlor		U	ug/kg	21
				Toxaphene		U	ug/kg	210
	CAN113-B325-1040	0436170009SA	40-42	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	[illegible]
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B325-1050	0436170010SA	50-50.5	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	
				Aroclor 1016		U	ug/kg	
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B325-1050	0436170010SA	50-50.5	Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B325-1060	0436170011SA	60-62	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B326-1021	0436190001SA	21.5-23	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B326-1021	0436190001SA	21.5-23	Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B326-1027	0436190003SA	27-29	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	[illegible]
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B326-1037	0436190004SA	37-39	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B326-1037	0436190004SA	37-39	Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B326-1047	0436190005SA	47-47.5	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B326-1055	0436190006SA	55-56.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B326-1055	0436190006SA	55-56.5	Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B327-1021	0436190013SA	21-23	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	[illegible]
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B327-1024	0436190014SA	24.5-26.5	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B327-1024	0436190014SA	24.5-26.5	Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B327-1034	0436190015SA	34.5-36.5	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B327-1044	0436190016SA	44.5-46	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B327-1044	0436190016SA	44.5-46	Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B327-1057	0436190017SA	57.5-58.1	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	
				Aroclor 1221		U	ug/kg	[illegible]
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.4
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	34
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin aldehyde		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.4
				Kepone		U	ug/kg	34
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B328-1000	0436180006SA	0-.5	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B328-1000	0436180006SA	0-.5	Aroclor 1016		U	ug/kg	34
				Aroclor 1221		U	ug/kg	34
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34
				Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B328-1020	0436180007SA	20-21.5	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B328-1025	0436180008SA	25-27	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B328-1025	0436180008SA	25-27	Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B328-1035	0436180009SA	35-37	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B328-1045	0436180010SA	45-47	4,4'-DDD		U	ug/kg	3.4
				4,4'-DDE		U	ug/kg	3.4
				4,4'-DDT		U	ug/kg	3.4
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	
				Aroclor 1221		U	ug/kg	
				Aroclor 1232		U	ug/kg	34
				Aroclor 1242		U	ug/kg	34

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B328-1045	0436180010SA	45-47	Aroclor 1248		U	ug/kg	34
				Aroclor 1254		U	ug/kg	34
				Aroclor 1260		U	ug/kg	34
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.4
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.4
				Endosulfan sulfate		U	ug/kg	3.4
				Endrin		U	ug/kg	3.4
				Endrin ketone		U	ug/kg	3.4
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B328-1055	0436180011SA	55-57	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B329-1014	0436180001SA	14-16	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B329-1014	0436180001SA	14-16	Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B329-1020	0436180002SA	20-22	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	[illegible]
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B329-1030	0436180003SA	30-32	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	
				Aroclor 1016		U	ug/kg	[illegible]
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B329-1030	0436180003SA	30-32	Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B329-1040	0436180004SA	40-42	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B329-1050	0436180005SA	50-51.8	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B329-1050	0436180005SA	50-51.8	Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				Chlorobenzilate		U	ug/kg	3.6
				delta-BHC		U	ug/kg	1.9
				Diallate		U	ug/kg	36
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin aldehyde		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Isodrin		U	ug/kg	3.6
				Kepone		U	ug/kg	36
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B330-1014	0436190007SA	14.5-16.5	4,4'-DDD		U	ug/kg	3.7
				4,4'-DDE		U	ug/kg	3.7
				4,4'-DDT		U	ug/kg	3.7
				Aldrin		U	ug/kg	
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	37
				Aroclor 1221		U	ug/kg	37
				Aroclor 1232		U	ug/kg	37
				Aroclor 1242		U	ug/kg	37
				Aroclor 1248		U	ug/kg	37
				Aroclor 1254		U	ug/kg	37
				Aroclor 1260		U	ug/kg	37
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.7
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.7
				Endosulfan sulfate		U	ug/kg	3.7
				Endrin		U	ug/kg	3.7
				Endrin ketone		U	ug/kg	3.7
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B330-1020	0436190008SA	20-21.3	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	
				alpha-Chlordane		U	ug/kg	
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B330-1020	0436190008SA	20-21.3	Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B330-1030	0436190010SA	30-32	4,4'-DDD		U	ug/kg	3.6
				4,4'-DDE		U	ug/kg	3.6
				4,4'-DDT		U	ug/kg	3.6
				Aldrin		U	ug/kg	1.9
				alpha-BHC		U	ug/kg	1.9
				alpha-Chlordane		U	ug/kg	1.9
				Aroclor 1016		U	ug/kg	36
				Aroclor 1221		U	ug/kg	36
				Aroclor 1232		U	ug/kg	36
				Aroclor 1242		U	ug/kg	36
				Aroclor 1248		U	ug/kg	36
				Aroclor 1254		U	ug/kg	36
				Aroclor 1260		U	ug/kg	36
				beta-BHC		U	ug/kg	1.9
				delta-BHC		U	ug/kg	1.9
				Dieldrin		U	ug/kg	3.6
				Endosulfan I		U	ug/kg	1.9
				Endosulfan II		U	ug/kg	3.6
				Endosulfan sulfate		U	ug/kg	3.6
				Endrin		U	ug/kg	3.6
				Endrin ketone		U	ug/kg	3.6
				gamma-BHC (Lindane)		U	ug/kg	1.9
				gamma-Chlordane		U	ug/kg	1.9
				Heptachlor		U	ug/kg	1.9
				Heptachlor epoxide		U	ug/kg	1.9
				Methoxychlor		U	ug/kg	19
				Toxaphene		U	ug/kg	190
	CAN113-B330-1040	0436190011SA	40-42	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	35
				Aroclor 1232		U	ug/kg	35
				Aroclor 1242		U	ug/kg	35

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
PEST/PCB	CAN113-B330-1040	0436190011SA	40-42	Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				delta-BHC		U	ug/kg	1.8
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
	CAN113-B330-1050	0436190012SA	50-52	4,4'-DDD		U	ug/kg	3.5
				4,4'-DDE		U	ug/kg	3.5
				4,4'-DDT		U	ug/kg	3.5
				Aldrin		U	ug/kg	1.8
				alpha-BHC		U	ug/kg	1.8
				alpha-Chlordane		U	ug/kg	1.8
				Aroclor 1016		U	ug/kg	35
				Aroclor 1221		U	ug/kg	
				Aroclor 1232		U	ug/kg	
				Aroclor 1242		U	ug/kg	35
				Aroclor 1248		U	ug/kg	35
				Aroclor 1254		U	ug/kg	35
				Aroclor 1260		U	ug/kg	35
				beta-BHC		U	ug/kg	1.8
				Chlorobenzilate		U	ug/kg	3.5
				delta-BHC		U	ug/kg	1.8
				Diallate		U	ug/kg	35
				Dieldrin		U	ug/kg	3.5
				Endosulfan I		U	ug/kg	1.8
				Endosulfan II		U	ug/kg	3.5
				Endosulfan sulfate		U	ug/kg	3.5
				Endrin		U	ug/kg	3.5
				Endrin aldehyde		U	ug/kg	3.5
				Endrin ketone		U	ug/kg	3.5
				gamma-BHC (Lindane)		U	ug/kg	1.8
				gamma-Chlordane		U	ug/kg	1.8
				Heptachlor		U	ug/kg	1.8
				Heptachlor epoxide		U	ug/kg	1.8
				Isodrin		U	ug/kg	3.5
				Kepone		U	ug/kg	35
				Methoxychlor		U	ug/kg	18
				Toxaphene		U	ug/kg	180
SVOC	CAN113-B301-0581	0437820014SA	-	1,2,4,5-Tetrachloro-benzene		U	ug/L	10
				1,2,4-Trichlorobenzene		U	ug/L	10
				1,2-Dichlorobenzene		U	ug/L	
				1,3,5-Trinitrobenzene		U	ug/L	
				1,3-Dichlorobenzene		U	ug/L	10
				1,3-Dinitrobenzene		U	ug/L	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-0581	0437820014SA	-	1,4-Dichlorobenzene		U	ug/L	10
				1,4-Naphthoquinone		U	ug/L	10
				1-Naphthylamine		U	ug/L	10
				2,3,4,6-Tetrachlorophenol		U	ug/L	50
				2,4,5-Trichlorophenol		U	ug/L	50
				2,4,6-Trichlorophenol		U	ug/L	10
				2,4-Dichlorophenol		U	ug/L	10
				2,4-Dimethylphenol		U	ug/L	10
				2,4-Dinitrophenol		U	ug/L	50
				2,4-Dinitrotoluene		U	ug/L	10
				2,6-Dichlorophenol		U	ug/L	10
				2,6-Dinitrotoluene		U	ug/L	10
				2-Acetylaminofluorene		U	ug/L	100
				2-Chloronaphthalene		U	ug/L	10
				2-Chlorophenol		U	ug/L	10
				2-Methylnaphthalene		U	ug/L	10
				2-Methylphenol		U	ug/L	10
				2-Naphthylamine		U	ug/L	10
				2-Nitroaniline		U	ug/L	50
				2-Nitrophenol		U	ug/L	10
				2-Picoline		U	ug/L	10
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/L	10
				2-Toluidine		U	ug/L	10
				3,3'-Dichlorobenzidine		U	ug/L	20
				3,3'-Dimethylbenzidine		U	ug/L	10
				3-Methylcholanthrene		U	ug/L	10
				3-Nitroaniline		U	ug/L	50
				3/4-Methylphenol		U	ug/L	10
				4,6-Dinitro-2-methylphenol		U	ug/L	50
				4-Aminobiphenyl		U	ug/L	10
				4-Bromophenyl phenyl ether		U	ug/L	10
				4-Chloro-3-methylphenol		U	ug/L	10
				4-Chloroaniline		U	ug/L	10
				4-Chlorophenyl phenyl ether		U	ug/L	10
				4-Nitroaniline		U	ug/L	50
				4-Nitrophenol		U	ug/L	50
				4-Nitroquinoline-1-oxide		U	ug/L	100
				4-Phenylenediamine		U	ug/L	100
				5-Nitro-o-toluidine		U	ug/L	10
				7,12-Dimethylbenz(a)-anthracene		U	ug/L	10
				a,a-Dimethylphenethyl-amine		U	ug/L	10
				Acenaphthene		U	ug/L	10
				Acenaphthylene		U	ug/L	10
				Acetophenone		U	ug/L	10
				Aniline		U	ug/L	10
				Anthracene		U	ug/L	10
				Aramite		U	ug/L	10
				Benzo(a)anthracene		U	ug/L	10
				Benzo(a)pyrene		U	ug/L	10
				Benzo(b)fluoranthene		U	ug/L	10
				Benzo(g,h,i)perylene		U	ug/L	10
				Benzo(k)fluoranthene		U	ug/L	10
				Benzyl alcohol		U	ug/L	10
				bis(2-Chloroethoxy)methane		U	ug/L	10
				bis(2-Chloroethyl) ether		U	ug/L	10
				bis(2-Chloroisopropyl)ether		U	ug/L	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-0581	0437820014SA	-	bis(2-Ethylhexyl)phthalate		U	ug/L	10
				Butyl benzyl phthalate		U	ug/L	10
				Carbazole		U	ug/L	10
				Chrysene		U	ug/L	10
				Di-n-butyl phthalate		U	ug/L	10
				Di-n-octyl phthalate		U	ug/L	10
				Dibenz(a,h)anthracene		U	ug/L	10
				Dibenzofuran		U	ug/L	10
				Diethyl phthalate		U	ug/L	10
				Dimethoate		U	ug/L	50
				Dimethyl phthalate		U	ug/L	10
				Diphenylamine		U	ug/L	10
				Disulfoton		U	ug/L	50
				Ethyl methanesulfonate		U	ug/L	10
				Famphur		U	ug/L	50
				Fluoranthene		U	ug/L	10
				Fluorene		U	ug/L	10
				Hexachlorobenzene		U	ug/L	10
				Hexachlorobutadiene		U	ug/L	10
				Hexachlorocyclopentadiene		U	ug/L	10
				Hexachloroethane		U	ug/L	10
				Hexachlorophene		U	ug/L	
				Hexachloropropene		U	ug/L	10
				Indeno(1,2,3-cd)pyrene		U	ug/L	10
				Isophorone		U	ug/L	
				Isosafrole		U	ug/L	10
				Methapyrilene		U	ug/L	10
				Methyl methanesulfonate		U	ug/L	10
				Methyl parathion		U	ug/L	50
				N-Nitroso-di-n-butylamine		U	ug/L	10
				N-Nitroso-di-n-propylamine		U	ug/L	10
				N-Nitrosodiethylamine		U	ug/L	10
				N-Nitrosodimethylamine		U	ug/L	10
				N-Nitrosodiphenylamine		U	ug/L	10
				N-Nitrosomethylethylamine		U	ug/L	10
				N-Nitrosomorpholine		U	ug/L	10
				N-Nitrosopiperidine		U	ug/L	10
				N-Nitrosopyrrolidine		U	ug/L	10
				Naphthalene		U	ug/L	10
				Nitrobenzene		U	ug/L	10
				O,O,O-Triethylphosphoro-thioate		U	ug/L	10
				p-Dimethylaminoazobenzene		U	ug/L	10
				Parathion		U	ug/L	50
				Pentachlorobenzene		U	ug/L	10
				Pentachloroethane		U	ug/L	10
				Pentachloronitrobenzene		U	ug/L	50
				Pentachlorophenol		U	ug/L	50
				Phenacetin		U	ug/L	10
				Phenanthrene		U	ug/L	10
				Phenol		U	ug/L	10
				Phorate		U	ug/L	100
				Pronamide		U	ug/L	10
				Pyrene		U	ug/L	
				Pyridine		U	ug/L	
				Safrole		U	ug/L	10
				Sulfotepp		U	ug/L	50

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-0581	0437820014SA	-	Thionazin		U	ug/L	50
	CAN113-B301-1000	0437820001SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1600
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1600
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1600
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	670
				3-Nitroaniline		U	ug/kg	1600
				4,6-Dinitro-2-methylphenol		U	ug/kg	1600
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1600
				4-Nitrophenol		U	ug/kg	1600
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1600
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1000	0437820001SA	0-.5	Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1600
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B301-1001	0437820012SA		1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	
				2-Methylphenol		U	ug/kg	[illegible]
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	
				Carbazole		U	ug/kg	
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1001	0437820012SA	0-.5	Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B301-1028	0437820002SA	28-30	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1028	0437820002SA	28-30	Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	
				Naphthalene		U	ug/kg	[illegible]
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol	360		ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B301-1034	0437820003SA	34-36	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	
				4-Chloroaniline		U	ug/kg	
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1034	0437820003SA	34-36	4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate	38	J	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B301-1045	0437820004SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1045	0437820004SA	45-47	2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	
				bis(2-Ethylhexyl)phthalate		U	ug/kg	[illegible]
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B301-1055	0437820005SA	55-56.9	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	
				1,3-Dichlorobenzene		U	ug/kg	
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1055	0437820005SA	55-56.9	2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1055	0437820005SA	55-56.9	Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B301-1063	0437820006SA	63-64.8	1,2,4,5-Tetrachloro-benzene		U	ug/kg	360
				1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3,5-Trinitrobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,3-Dinitrobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				1,4-Naphthoquinone		U	ug/kg	360
				1-Naphthylamine		U	ug/kg	360
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dichlorophenol		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Acetylaminofluorene		U	ug/kg	3600
				2-Chloronaphthalene		U	ug/kg	
				2-Chlorophenol		U	ug/kg	[illegible]
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Naphthylamine		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				2-Picoline		U	ug/kg	360
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	360
				2-Toluidine		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3,3'-Dimethylbenzidine		U	ug/kg	360
				3-Methylcholanthrene		U	ug/kg	360
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	360
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	360
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3600
				4-Phenylenediamine		U	ug/kg	3600
				5-Nitro-o-toluidine		U	ug/kg	360
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	360
				a,a-Dimethylphenethyl-amine		U	ug/kg	360
				Acenaphthene	39	J	ug/kg	
				Acenaphthylene		U	ug/kg	
				Acetophenone		U	ug/kg	360
				Aniline		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1063	0437820006SA	63-64.8	Anthracene		U	ug/kg	360
				Aramite		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	57	J	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Diphenylamine		U	ug/kg	360
				Ethyl methanesulfonate		U	ug/kg	360
				Fluoranthene	67	J	ug/kg	360
				Fluorene	41	J	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				Isosafrole		U	ug/kg	710
				Methapyrilene		U	ug/kg	360
				Methyl methanesulfonate		U	ug/kg	360
				N-Nitroso-di-n-butylamine		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiethylamine		U	ug/kg	360
				N-Nitrosodimethylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				N-Nitrosomethylethylamine		U	ug/kg	360
				N-Nitrosomorpholine		U	ug/kg	360
				N-Nitrosopiperidine		U	ug/kg	360
				N-Nitrosopyrrolidine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				p-Dimethylaminoazobenzene		U	ug/kg	360
				Pentachlorobenzene		U	ug/kg	360
				Pentachloroethane		U	ug/kg	360
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	360
				Phenanthrene	130	J	ug/kg	360
				Phenol		U	ug/kg	360
				Pronamide		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B301-1063	0437820006SA	63-64.8	Pyrene	88	J	ug/kg	360
				Pyridine		U	ug/kg	710
				Safrole		U	ug/kg	360
	CAN113-B302-1014	0437820007SA	14-16	1,2,4-Trichlorobenzene		U	ug/kg	380
				1,2-Dichlorobenzene		U	ug/kg	380
				1,3-Dichlorobenzene		U	ug/kg	380
				1,4-Dichlorobenzene		U	ug/kg	380
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	380
				2,4-Dichlorophenol		U	ug/kg	380
				2,4-Dimethylphenol		U	ug/kg	380
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	380
				2,6-Dinitrotoluene		U	ug/kg	380
				2-Chloronaphthalene		U	ug/kg	380
				2-Chlorophenol		U	ug/kg	380
				2-Methylnaphthalene		U	ug/kg	380
				2-Methylphenol		U	ug/kg	380
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	380
				3,3'-Dichlorobenzidine		U	ug/kg	760
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	380
				4-Chloro-3-methylphenol		U	ug/kg	
				4-Chloroaniline		U	ug/kg	[illegible]
				4-Chlorophenyl phenyl ether		U	ug/kg	380
				4-Methylphenol		U	ug/kg	380
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	380
				Acenaphthylene		U	ug/kg	380
				Anthracene		U	ug/kg	380
				Benzo(a)anthracene		U	ug/kg	380
				Benzo(a)pyrene		U	ug/kg	380
				Benzo(b)fluoranthene		U	ug/kg	380
				Benzo(g,h,i)perylene		U	ug/kg	380
				Benzo(k)fluoranthene		U	ug/kg	380
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	380
				bis(2-Chloroethoxy)methane		U	ug/kg	380
				bis(2-Chloroethyl) ether		U	ug/kg	380
				bis(2-Chloroisopropyl)ether		U	ug/kg	380
				bis(2-Ethylhexyl)phthalate		U	ug/kg	380
				Butyl benzyl phthalate		U	ug/kg	380
				Carbazole		U	ug/kg	380
				Chrysene		U	ug/kg	380
				Di-n-butyl phthalate		U	ug/kg	380
				Di-n-octyl phthalate		U	ug/kg	380
				Dibenz(a,h)anthracene		U	ug/kg	380
				Dibenzofuran		U	ug/kg	380
				Diethyl phthalate		U	ug/kg	380
				Dimethyl phthalate		U	ug/kg	
				Fluoranthene		U	ug/kg	
				Fluorene		U	ug/kg	380
				Hexachlorobenzene		U	ug/kg	380

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B302-1014	0437820007SA	14-16	Hexachlorobutadiene		U	ug/kg	380
				Hexachlorocyclopentadiene		U	ug/kg	380
				Hexachloroethane		U	ug/kg	380
				Indeno(1,2,3-cd)pyrene		U	ug/kg	380
				Isophorone		U	ug/kg	380
				N-Nitroso-di-n-propylamine		U	ug/kg	380
				N-Nitrosodiphenylamine		U	ug/kg	380
				Naphthalene		U	ug/kg	380
				Nitrobenzene		U	ug/kg	380
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	380
				Phenol		U	ug/kg	380
				Pyrene		U	ug/kg	380
	CAN113-B302-1020	0437820008SA	20-22	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B302-1020	0437820008SA	20-22	Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B302-1030	0437820009SA	30-31.5	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	
				1,3-Dichlorobenzene		U	ug/kg	
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	
				Benzo(a)anthracene		U	ug/kg	
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B302-1030	0437820009SA	30-31.5	Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B302-1040	0437820010SA	40-41.8	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B302-1040	0437820010SA	40-41.8	4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B302-1050	0437820011SA	49-51	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	
				2,4,5-Trichlorophenol		U	ug/kg	
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B302-1050	0437820011SA	49-51	2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B302-1050	0437820011SA	49-51	Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	
				N-Nitrosopiperidine		U	ug/kg	[illegible]
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	350
	CAN113-B303-1023	0437630001SA	23-25	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	
				2-Chlorophenol		U	ug/kg	
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B303-1023	0437630001SA	23-25	2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B303-1028	0437630002SA	28-30	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B303-1028	0437630002SA	28-30	2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	
				Benzo(a)anthracene		U	ug/kg	
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	
				N-Nitroso-di-n-propylamine		U	ug/kg	
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B303-1028	0437630002SA	28-30	Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B303-1040	0437630003SA	40-42	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B303-1040	0437630003SA	40-42	Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B303-1050	0437630004SA	50-51.4	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	
				2,6-Dinitrotoluene		U	ug/kg	[illegible]
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	680
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	
				bis(2-Chloroethyl) ether		U	ug/kg	
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B303-1050	0437630004SA	50-51.4	Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B303-1058	0437630005SA	58-59.9	1,2,4,5-Tetrachloro-benzene		U	ug/kg	340
				1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3,5-Trinitrobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,3-Dinitrobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				1,4-Naphthoquinone		U	ug/kg	340
				1-Naphthylamine		U	ug/kg	340
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dichlorophenol		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Acetylaminofluorene		U	ug/kg	3400
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Naphthylamine		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				2-Picoline		U	ug/kg	340
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	340
				2-Toluidine		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B303-1058	0437630005SA	58-59.9	3-Methylcholanthrene		U	ug/kg	340
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	340
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	340
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3400
				4-Phenylenediamine		U	ug/kg	3400
				5-Nitro-o-toluidine		U	ug/kg	340
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	340
				a,a-Dimethylphenethyl-amine		U	ug/kg	340
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Acetophenone		U	ug/kg	340
				Aniline		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Aramite		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	
				Benzo(g,h,i)perylene		U	ug/kg	[illegible]
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate	160	J	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Diphenylamine		U	ug/kg	340
				Ethyl methanesulfonate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	
				Isosafrole		U	ug/kg	
				Methapyrilene		U	ug/kg	340
				Methyl methanesulfonate		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B303-1058	0437630005SA	58-59.9	N-Nitroso-di-n-butylamine		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiethylamine		U	ug/kg	340
				N-Nitrosodimethylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				N-Nitrosomethylethylamine		U	ug/kg	340
				N-Nitrosomorpholine		U	ug/kg	340
				N-Nitrosopiperidine		U	ug/kg	340
				N-Nitrosopyrrolidine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				p-Dimethylaminoazobenzene		U	ug/kg	340
				Pentachlorobenzene		U	ug/kg	340
				Pentachloroethane		U	ug/kg	340
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	340
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pronamide		U	ug/kg	340
				Pyrene		U	ug/kg	340
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	340
	CAN113-B304-1000	0435620006SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B304-1000	0435620006SA	0-.5	Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate	45	J	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B304-1020	0435620007SA	20-22	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	
				4-Bromophenyl phenyl ether		U	ug/kg	
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B304-1020	0435620007SA	20-22	4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B304-1025	0435620008SA	25-27	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B304-1025	0435620008SA	25-27	2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	86	J	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	
	CAN113-B304-1035	0435620009SA	35-36.3	1,2,4-Trichlorobenzene		U	ug/kg	
				1,2-Dichlorobenzene		U	ug/kg	380
				1,3-Dichlorobenzene		U	ug/kg	380

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B304-1035	0435620009SA	35-36.3	1,4-Dichlorobenzene		U	ug/kg	380
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	380
				2,4-Dichlorophenol		U	ug/kg	380
				2,4-Dimethylphenol		U	ug/kg	380
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	380
				2,6-Dinitrotoluene		U	ug/kg	380
				2-Chloronaphthalene		U	ug/kg	380
				2-Chlorophenol		U	ug/kg	380
				2-Methylnaphthalene		U	ug/kg	380
				2-Methylphenol		U	ug/kg	380
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	380
				3,3'-Dichlorobenzidine		U	ug/kg	760
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	380
				4-Chloro-3-methylphenol		U	ug/kg	380
				4-Chloroaniline		U	ug/kg	380
				4-Chlorophenyl phenyl ether		U	ug/kg	380
				4-Methylphenol		U	ug/kg	380
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	380
				Acenaphthylene		U	ug/kg	380
				Anthracene		U	ug/kg	380
				Benzo(a)anthracene		U	ug/kg	380
				Benzo(a)pyrene		U	ug/kg	380
				Benzo(b)fluoranthene		U	ug/kg	380
				Benzo(g,h,i)perylene		U	ug/kg	380
				Benzo(k)fluoranthene		U	ug/kg	380
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	380
				bis(2-Chloroethoxy)methane		U	ug/kg	380
				bis(2-Chloroethyl) ether		U	ug/kg	380
				bis(2-Chloroisopropyl)ether		U	ug/kg	380
				bis(2-Ethylhexyl)phthalate	52	J	ug/kg	380
				Butyl benzyl phthalate		U	ug/kg	380
				Carbazole		U	ug/kg	380
				Chrysene		U	ug/kg	380
				Di-n-butyl phthalate		U	ug/kg	380
				Di-n-octyl phthalate		U	ug/kg	380
				Dibenz(a,h)anthracene		U	ug/kg	380
				Dibenzofuran		U	ug/kg	380
				Diethyl phthalate		U	ug/kg	380
				Dimethyl phthalate		U	ug/kg	380
				Fluoranthene		U	ug/kg	380
				Fluorene		U	ug/kg	380
				Hexachlorobenzene		U	ug/kg	380
				Hexachlorobutadiene		U	ug/kg	380
				Hexachlorocyclopentadiene		U	ug/kg	380
				Hexachloroethane		U	ug/kg	380
				Indeno(1,2,3-cd)pyrene		U	ug/kg	380
				Isophorone		U	ug/kg	380
				N-Nitroso-di-n-propylamine		U	ug/kg	380

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B304-1035	0435620009SA	35-36.3	N-Nitrosodiphenylamine		U	ug/kg	380
				Naphthalene		U	ug/kg	380
				Nitrobenzene		U	ug/kg	380
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	380
				Phenol		U	ug/kg	380
				Pyrene		U	ug/kg	380
	CAN113-B304-1045	0435620010SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	
				Dibenz(a,h)anthracene		U	ug/kg	
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B304-1045	0435620010SA	45-47	Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B304-1055	0435620011SA	55-57	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B304-1055	0435620011SA	55-57	4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	
				Carbazole		U	ug/kg	[illegible]
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	710
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	
				N-Nitrosomethylethylamine		U	ug/kg	
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B304-1055	0435620011SA	55-57	N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	710
				Safrole		U	ug/kg	350
	CAN113-B305-1024	0435620001SA	24.5-26.5	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	260	J	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B305-1024	0435620001SA	24.5-26.5	Butyl benzyl phthalate	170	J	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate	160	J	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	
	CAN113-B305-1029	0435620002SA	29.5-31.5	1,2,4-Trichlorobenzene		U	ug/kg	[illegible]
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	
				Acenaphthylene		U	ug/kg	
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B305-1029	0435620002SA	29.5-31.5	Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	76	J	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B305-1039	0435620003SA	39.5-40.3	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL	UNITS	DL
SVOC	CAN113-B305-1039	0435620003SA	39.5-40.3	4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	78	J	ug/kg	360
				Butyl benzyl phthalate	36	J	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B305-1049	0435620004SA	49.5-51	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	
				2,4-Dinitrophenol		U	ug/kg	
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B305-1049	0435620004SA	49.5-51	2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	680
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B305-1059	0435620005SA	59.5-60.8	1,2,4,5-Tetrachloro-benzene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B305-1059	0435620005SA	59.5-60.8	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3,5-Trinitrobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,3-Dinitrobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				1,4-Naphthoquinone		U	ug/kg	340
				1-Naphthylamine		U	ug/kg	340
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dichlorophenol		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Acetylaminofluorene		U	ug/kg	3400
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Naphthylamine		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	
				2-Picoline		U	ug/kg	[illegible]
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	340
				2-Toluidine		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	340
				3-Methylcholanthrene		U	ug/kg	340
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	340
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	340
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3400
				4-Phenylenediamine		U	ug/kg	3400
				5-Nitro-o-toluidine		U	ug/kg	340
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	340
				a,a-Dimethylphenethyl-amine		U	ug/kg	340
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Acetophenone		U	ug/kg	340
				Aniline		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Aramite		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	
				Benzo(a)pyrene		U	ug/kg	
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B305-1059	0435620005SA	59.5-60.8	Benzo(k)fluoranthene		U	ug/kg	340
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Diphenylamine		U	ug/kg	340
				Ethyl methanesulfonate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	340
				Methyl methanesulfonate		U	ug/kg	340
				N-Nitroso-di-n-butylamine		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiethylamine		U	ug/kg	340
				N-Nitrosodimethylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				N-Nitrosomethylethylamine		U	ug/kg	340
				N-Nitrosomorpholine		U	ug/kg	340
				N-Nitrosopiperidine		U	ug/kg	340
				N-Nitrosopyrrolidine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				p-Dimethylaminoazobenzene		U	ug/kg	340
				Pentachlorobenzene		U	ug/kg	340
				Pentachloroethane		U	ug/kg	340
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	340
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pronamide		U	ug/kg	340
				Pyrene		U	ug/kg	340
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	340
	CAN113-B306-1020	0437630012SA	20-21.9	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B306-1020	0437630012SA	20-21.9	1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	750
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	
				Acenaphthylene		U	ug/kg	[illegible]
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	
				Indeno(1,2,3-cd)pyrene		U	ug/kg	
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B306-1020	0437630012SA	20-21.9	N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B306-1025	0437630013SA	25-27	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B306-1025	0437630013SA	25-27	Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B306-1035	0437630014SA	35-37	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	
				Benzyl alcohol		U	ug/kg	
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B306-1035	0437630014SA	35-37	bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate	57	J	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate	330	J	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B306-1045	0437630015SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B306-1045	0437630015SA	45-47	Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B306-1055	0437630016SA	55-57.5	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	
				2,6-Dichlorophenol		U	ug/kg	
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B306-1055	0437630016SA	55-57.5	2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B306-1055	0437630016SA	55-57.5	Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	350
	CAN113-B307-1000	0436080001SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1600
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1600
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1600
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	
				3-Nitroaniline		U	ug/kg	
				4,6-Dinitro-2-methylphenol		U	ug/kg	1600
				4-Bromophenyl phenyl ether		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B307-1000	0436080001SA	0-.5	4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1600
				4-Nitrophenol		U	ug/kg	1600
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1600
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1600
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B307-1024	0436080002SA	24-26	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B307-1024	0436080002SA	24-26	2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	
				Benzyl alcohol		U	ug/kg	[illegible]
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	500		ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	
				Phenol		U	ug/kg	
				Pyrene		U	ug/kg	360
	CAN113-B307-1029	0436080003SA	29-30.8	1,2,4-Trichlorobenzene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B307-1029	0436080003SA	29-30.8	1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	43	J	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B307-1029	0436080003SA	29-30.8	Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B307-1039	0436080004SA	39-41	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	
				2-Nitrophenol		U	ug/kg	[illegible]
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	590		ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	
				Di-n-butyl phthalate		U	ug/kg	
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B307-1039	0436080004SA	39-41	Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B307-1049	0436080005SA	49-51	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B307-1049	0436080005SA	49-51	bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate	430		ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B307-1059	0436080006SA	59-60.9	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	
				2-Nitroaniline		U	ug/kg	[illegible]
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B307-1059	0436080006SA	59-60.9	2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B307-1059	0436080006SA	59-60.9	Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	
				Pyridine		U	ug/kg	[illegible]
				Safrole		U	ug/kg	350
	CAN113-B308-1020	0436080008SA	20-22	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	
				4-Nitrophenol		U	ug/kg	
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B308-1020	0436080008SA	20-22	Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	400		ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B308-1025	0436080009SA	25-27	1,2,4-Trichlorobenzene		U	ug/kg	390
				1,2-Dichlorobenzene		U	ug/kg	390
				1,3-Dichlorobenzene		U	ug/kg	390
				1,4-Dichlorobenzene		U	ug/kg	390
				2,4,5-Trichlorophenol		U	ug/kg	1900
				2,4,6-Trichlorophenol		U	ug/kg	390
				2,4-Dichlorophenol		U	ug/kg	390
				2,4-Dimethylphenol		U	ug/kg	390
				2,4-Dinitrophenol		U	ug/kg	1900
				2,4-Dinitrotoluene		U	ug/kg	390
				2,6-Dinitrotoluene		U	ug/kg	390
				2-Chloronaphthalene		U	ug/kg	390
				2-Chlorophenol		U	ug/kg	390
				2-Methylnaphthalene		U	ug/kg	390
				2-Methylphenol		U	ug/kg	390
				2-Nitroaniline		U	ug/kg	1900
				2-Nitrophenol		U	ug/kg	390
				3,3'-Dichlorobenzidine		U	ug/kg	770
				3-Nitroaniline		U	ug/kg	1900

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B308-1025	0436080009SA	25-27	4,6-Dinitro-2-methylphenol		U	ug/kg	1900
				4-Bromophenyl phenyl ether		U	ug/kg	390
				4-Chloro-3-methylphenol		U	ug/kg	390
				4-Chloroaniline		U	ug/kg	390
				4-Chlorophenyl phenyl ether		U	ug/kg	390
				4-Methylphenol		U	ug/kg	390
				4-Nitroaniline		U	ug/kg	1900
				4-Nitrophenol		U	ug/kg	1900
				Acenaphthene		U	ug/kg	390
				Acenaphthylene		U	ug/kg	390
				Anthracene		U	ug/kg	390
				Benzo(a)anthracene		U	ug/kg	390
				Benzo(a)pyrene		U	ug/kg	390
				Benzo(b)fluoranthene		U	ug/kg	390
				Benzo(g,h,i)perylene		U	ug/kg	390
				Benzo(k)fluoranthene		U	ug/kg	390
				Benzoic acid		U	ug/kg	1900
				Benzyl alcohol		U	ug/kg	390
				bis(2-Chloroethoxy)methane		U	ug/kg	390
				bis(2-Chloroethyl) ether		U	ug/kg	390
				bis(2-Chloroisopropyl)ether		U	ug/kg	390
				bis(2-Ethylhexyl)phthalate	410		ug/kg	390
				Butyl benzyl phthalate		U	ug/kg	390
				Carbazole		U	ug/kg	390
				Chrysene		U	ug/kg	
				Di-n-butyl phthalate		U	ug/kg	[illegible]
				Di-n-octyl phthalate		U	ug/kg	390
				Dibenz(a,h)anthracene		U	ug/kg	390
				Dibenzofuran		U	ug/kg	390
				Diethyl phthalate		U	ug/kg	390
				Dimethyl phthalate		U	ug/kg	390
				Fluoranthene		U	ug/kg	390
				Fluorene		U	ug/kg	390
				Hexachlorobenzene		U	ug/kg	390
				Hexachlorobutadiene		U	ug/kg	390
				Hexachlorocyclopentadiene		U	ug/kg	390
				Hexachloroethane		U	ug/kg	390
				Indeno(1,2,3-cd)pyrene		U	ug/kg	390
				Isophorone		U	ug/kg	390
				N-Nitroso-di-n-propylamine		U	ug/kg	390
				N-Nitrosodiphenylamine		U	ug/kg	390
				Naphthalene		U	ug/kg	390
				Nitrobenzene		U	ug/kg	390
				Pentachlorophenol		U	ug/kg	1900
				Phenanthrene		U	ug/kg	390
				Phenol		U	ug/kg	390
				Pyrene		U	ug/kg	390
	CAN113-B308-1035	0436080011SA	35-35.9	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	
				2,4-Dichlorophenol		U	ug/kg	
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B308-1035	0436080011SA	35-35.9	2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate	420		ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B308-1035	0436080011SA	35-35.9	Pyrene		U	ug/kg	370
	CAN113-B308-1045	0436080012SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	440		ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	
				Hexachlorobenzene		U	ug/kg	
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B308-1045	0436080012SA	45-47	Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B308-1055	0436080013SA	55-57	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B308-1055	0436080013SA	55-57	7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	
				Diethyl phthalate		U	ug/kg	[illegible]
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	
				p-Dimethylaminoazobenzene		U	ug/kg	
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B308-1055	0436080013SA	55-57	Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
	CAN113-B309-1018	0437350006SA	18-20	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	73	J	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B309-1018	0437350006SA	18-20	Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B309-1025	0437350007SA	25-26.5	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	
				Benzo(k)fluoranthene		U	ug/kg	
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B309-1025	0437350007SA	25-26.5	bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate	75	J	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B309-1035	0437350008SA	35-36.9	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B309-1035	0437350008SA	35-36.9	Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	190	J	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B309-1045	0437350010SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	
				2-Methylphenol		U	ug/kg	
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B309-1045	0437350010SA	45-47	3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B309-1053	0437350011SA	53-54.3	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B309-1053	0437350011SA	53-54.3	1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	
				bis(2-Chloroethyl) ether		U	ug/kg	
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B309-1053	0437350011SA	53-54.3	Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
	CAN113-B310-1000	0435300001SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B310-1000	0435300001SA	0-.5	2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	
				Benzo(k)fluoranthene		U	ug/kg	[illegible]
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	
				Pentachlorophenol		U	ug/kg	
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B310-1000	0435300001SA	0-.5	Pyrene		U	ug/kg	340
	CAN113-B310-1029	0435300003SA	29.5-31	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B310-1029	0435300003SA	29.5-31	Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B310-1034	0435300004SA	34-35.3	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	
				2-Methylphenol		U	ug/kg	[illegible]
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	
				Carbazole		U	ug/kg	
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B310-1034	0435300004SA	34-35.3	Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B310-1044	0435300005SA	44-46	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	680
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B310-1044	0435300005SA	44-46	Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	
				Naphthalene		U	ug/kg	[illegible]
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B310-1054	0435300006SA	54-55	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1600
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1600
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1600
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	670
				3-Nitroaniline		U	ug/kg	1600
				4,6-Dinitro-2-methylphenol		U	ug/kg	1600
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	
				4-Chloroaniline		U	ug/kg	
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B310-1054	0435300006SA	54-55	4-Nitroaniline		U	ug/kg	1600
				4-Nitrophenol		U	ug/kg	1600
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1600
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1600
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B310-1064	0435300007SA	66-65	1,2,4,5-Tetrachloro-benzene		U	ug/kg	340
				1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3,5-Trinitrobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,3-Dinitrobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				1,4-Naphthoquinone		U	ug/kg	340
				1-Naphthylamine		U	ug/kg	340
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B310-1064	0435300007SA	66-65	2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dichlorophenol		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Acetylaminofluorene		U	ug/kg	3400
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Naphthylamine		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				2-Picoline		U	ug/kg	340
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	340
				2-Toluidine		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	340
				3-Methylcholanthrene		U	ug/kg	340
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	340
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	340
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3400
				4-Phenylenediamine		U	ug/kg	3400
				5-Nitro-o-toluidine		U	ug/kg	340
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	340
				a,a-Dimethylphenethyl-amine		U	ug/kg	340
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Acetophenone		U	ug/kg	340
				Aniline		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Aramite		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	
				Dibenz(a,h)anthracene		U	ug/kg	[illegible]
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B310-1064	0435300007SA	66-65	Dimethyl phthalate		U	ug/kg	340
				Diphenylamine		U	ug/kg	340
				Ethyl methanesulfonate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	340
				Methyl methanesulfonate		U	ug/kg	340
				N-Nitroso-di-n-butylamine		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiethylamine		U	ug/kg	340
				N-Nitrosodimethylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				N-Nitrosomethylethylamine		U	ug/kg	340
				N-Nitrosomorpholine		U	ug/kg	340
				N-Nitrosopiperidine		U	ug/kg	340
				N-Nitrosopyrrolidine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				p-Dimethylaminoazobenzene		U	ug/kg	340
				Pentachlorobenzene		U	ug/kg	340
				Pentachloroethane		U	ug/kg	340
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	340
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pronamide		U	ug/kg	340
				Pyrene		U	ug/kg	340
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	340
	CAN113-B311-1031	0435300008SA	31-33	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B311-1031	0435300008SA	31-33	3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	[illegible]
				Butyl benzyl phthalate		U	ug/kg	
				Carbazole		U	ug/kg	[illegible]
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B311-1035	0435300009SA	35-35.8	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	
				2,4,5-Trichlorophenol		U	ug/kg	[illegible]
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B311-1035	0435300009SA	35-35.8	2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B311-1035	0435300009SA	35-35.8	Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B311-1045	0435300010SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	
				Fluoranthene		U	ug/kg	[illegible]
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B311-1045	0435300010SA	45-47	Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B311-1055	0435300011SA	55-57	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B311-1055	0435300011SA	55-57	Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B311-1065	0435620012SA	65-66.4	1,2,4,5-Tetrachloro-benzene		U	ug/kg	[illegible]
				1,2,4-Trichlorobenzene		U	ug/kg	
				1,2-Dichlorobenzene		U	ug/kg	[illegible]
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	
				3,3'-Dimethylbenzidine		U	ug/kg	[illegible]
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B311-1065	0435620012SA	65-66.4	3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B311-1065	0435620012SA	65-66.4	N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
	CAN113-B312-1027	0437200001SA	27.5-29.5	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	[illegible]
				1,4-Dichlorobenzene		U	ug/kg	
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	
				Benzo(b)fluoranthene		U	ug/kg	[illegible]
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B312-1027	0437200001SA	27.5-29.5	Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B312-1034	0437200002SA	34-36	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B312-1034	0437200002SA	34-36	4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	
				Fluoranthene		U	ug/kg	[illegible]
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B312-1045	0437200003SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	
				2-Chlorophenol		U	ug/kg	
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B312-1045	0437200003SA	45-47	2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B312-1055	0437200004SA	55-57	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B312-1055	0437200004SA	55-57	2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	
				Benzo(a)anthracene		U	ug/kg	[illegible]
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	
				N-Nitroso-di-n-propylamine		U	ug/kg	[illegible]
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B312-1055	0437200004SA	55-57	Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B312-1065	0437200005SA	65-65.6	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B312-1065	0437200005SA	65-65.6	Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	
				Phenanthrene		U	ug/kg	
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B312-1065	0437200005SA	65-65.6	Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	350
	CAN113-B313-1000	0437630006SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1600
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1600
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1600
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	680
				3-Nitroaniline		U	ug/kg	1600
				4,6-Dinitro-2-methylphenol		U	ug/kg	1600
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1600
				4-Nitrophenol		U	ug/kg	1600
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1600
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B313-1000	0437630006SA	0-.5	Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1600
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B313-1027	0437630007SA	27-29	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	
				2-Chlorophenol		U	ug/kg	[illegible]
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene	37	J	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	
				bis(2-Ethylhexyl)phthalate		U	ug/kg	
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B313-1027	0437630007SA	27-29	Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene	78	J	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B313-1032	0437630008SA	32-34	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B313-1032	0437630008SA	32-34	Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	
				N-Nitroso-di-n-propylamine		U	ug/kg	[illegible]
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B313-1040	0437630009SA	40-42	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene	85	J	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	
				4-Bromophenyl phenyl ether		U	ug/kg	
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B313-1040	0437630009SA	40-42	4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene	82	J	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene	38	J	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran	44	J	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene	93	J	ug/kg	360
				Fluorene	69	J	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene	220	J	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene	74	J	ug/kg	360
	CAN113-B313-1050	0437630010SA	50-51.5	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B313-1050	0437630010SA	50-51.5	2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	
				bis(2-Chloroethyl) ether		U	ug/kg	[illegible]
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene	69	J	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	
	CAN113-B313-1062	0437630011SA	62-64.5	1,2,4,5-Tetrachloro-benzene		U	ug/kg	
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B313-1062	0437630011SA	62-64.5	1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B313-1062	0437630011SA	62-64.5	bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	
				Isosafrole		U	ug/kg	[illegible]
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene	41	J	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
	CAN113-B314-1032	0437200006SA	32-33.9	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	
				1,3-Dichlorobenzene		U	ug/kg	
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B314-1032	0437200006SA	32-33.9	2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B314-1032	0437200006SA	32-33.9	Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B314-1038	0437200007SA	38-39.1	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	
				4-Bromophenyl phenyl ether		U	ug/kg	[illegible]
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	
				Diethyl phthalate		U	ug/kg	
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B314-1038	0437200007SA	38-39.1	Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B314-1045	0437200008SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B314-1045	0437200008SA	45-47	Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	
	CAN113-B314-1057	0437200009SA	57-60.5	1,2,4-Trichlorobenzene		U	ug/kg	[illegible]
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	
				Acenaphthylene		U	ug/kg	
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B314-1057	0437200009SA	57-60.5	Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B314-1067	0437200010SA	67-68.5	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B314-1067	0437200010SA	67-68.5	2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	
				Fluoranthene		U	ug/kg	
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B314-1067	0437200010SA	67-68.5	Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
	CAN113-B315-1020	0437350001SA	20-22	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B315-1020	0437350001SA	20-22	4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol	49	J	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate	230	J	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	
				Diethyl phthalate		U	ug/kg	[illegible]
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B315-1025	0437350002SA	25-27	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	
				2,6-Dinitrotoluene		U	ug/kg	
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B315-1025	0437350002SA	25-27	2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol	68	J	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate	100	J	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B315-1035	0437350003SA	35-35.8	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B315-1035	0437350003SA	35-35.8	1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	
				Acenaphthylene		U	ug/kg	[illegible]
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate	74	J	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	
				Indeno(1,2,3-cd)pyrene		U	ug/kg	
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B315-1035	0437350003SA	35-35.8	N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B315-1045	0437350004SA	45-46.8	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate	200	J	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B315-1045	0437350004SA	45-46.8	Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B315-1055	0437350005SA	55-55.8	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	
				1-Naphthylamine		U	ug/kg	[illegible]
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	
				4-Bromophenyl phenyl ether		U	ug/kg	
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B315-1055	0437350005SA	55-55.8	4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	710
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B315-1055	0437350005SA	55-55.8	N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	710
				Safrole		U	ug/kg	350
	CAN113-B316-1000	0436970006SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1600
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1600
				2,4-Dinitrotoluene		U	ug/kg	
				2,6-Dinitrotoluene		U	ug/kg	
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1600
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	670
				3-Nitroaniline		U	ug/kg	1600
				4,6-Dinitro-2-methylphenol		U	ug/kg	1600
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1600
				4-Nitrophenol		U	ug/kg	1600
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1600
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	
				bis(2-Chloroethyl) ether		U	ug/kg	
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B316-1000	0436970006SA	0-.5	Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1600
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B316-1045	0436970008SA	45-46.9	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol	100	J	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B316-1045	0436970008SA	45-46.9	Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate	230	J	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	
				Indeno(1,2,3-cd)pyrene		U	ug/kg	[illegible]
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol	40	J	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B316-1050	0436970010SA	50-50.9	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	
				3-Nitroaniline		U	ug/kg	
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B316-1050	0436970010SA	50-50.9	4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B316-1060	0436970011SA	60-60.9	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B316-1060	0436970011SA	60-60.9	2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	
				Benzyl alcohol		U	ug/kg	[illegible]
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	
				Phenol		U	ug/kg	
				Pyrene		U	ug/kg	350
	CAN113-B316-1070	0436970012SA	70-70.8	1,2,4-Trichlorobenzene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B316-1070	0436970012SA	70-70.8	1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate	57	J	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B316-1070	0436970012SA	70-70.8	Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B316-1080	0436970013SA	80-81.5	1,2,4,5-Tetrachloro-benzene		U	ug/kg	340
				1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3,5-Trinitrobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,3-Dinitrobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				1,4-Naphthoquinone		U	ug/kg	340
				1-Naphthylamine		U	ug/kg	340
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	
				2,6-Dichlorophenol		U	ug/kg	[illegible]
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Acetylaminofluorene		U	ug/kg	3400
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Naphthylamine		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				2-Picoline		U	ug/kg	340
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	340
				2-Toluidine		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	680
				3,3'-Dimethylbenzidine		U	ug/kg	340
				3-Methylcholanthrene		U	ug/kg	340
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	340
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	340
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3400
				4-Phenylenediamine		U	ug/kg	
				5-Nitro-o-toluidine		U	ug/kg	
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	340
				a,a-Dimethylphenethyl-amine		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B316-1080	0436970013SA	80-81.5	Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Acetophenone		U	ug/kg	340
				Aniline		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Aramite		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Diphenylamine		U	ug/kg	340
				Ethyl methanesulfonate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				Isosafrole		U	ug/kg	680
				Methapyrilene		U	ug/kg	340
				Methyl methanesulfonate		U	ug/kg	340
				N-Nitroso-di-n-butylamine		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiethylamine		U	ug/kg	340
				N-Nitrosodimethylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				N-Nitrosomethylethylamine		U	ug/kg	340
				N-Nitrosomorpholine		U	ug/kg	340
				N-Nitrosopiperidine		U	ug/kg	340
				N-Nitrosopyrrolidine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				p-Dimethylaminoazobenzene		U	ug/kg	340
				Pentachlorobenzene		U	ug/kg	340
				Pentachloroethane		U	ug/kg	340
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B316-1080	0436970013SA	80-81.5	Phenacetin		U	ug/kg	340
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pronamide		U	ug/kg	340
				Pyrene		U	ug/kg	340
				Pyridine		U	ug/kg	680
				Safrole		U	ug/kg	340
	CAN113-B317-1019	0436970014SA	19-20.3	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	
				3-Nitroaniline		U	ug/kg	[illegible]
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate	37	J	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	
				Dibenz(a,h)anthracene		U	ug/kg	
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B317-1019	0436970014SA	19-20.3	Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B317-1025	0436970015SA	25-26.5	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B317-1025	0436970015SA	25-26.5	bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate	3800		ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate	69	J	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	
				Phenol	47	J	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B317-1035	0436970016SA	35-36.3	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	
				4-Nitrophenol		U	ug/kg	
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B317-1035	0436970016SA	35-36.3	Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate	48	J	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B317-1045	0436970017SA	45-46.9	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B317-1045	0436970017SA	45-46.9	4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate	39	J	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B317-1053	0436970018SA	53-55	1,2,4,5-Tetrachloro-benzene		U	ug/kg	340
				1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3,5-Trinitrobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,3-Dinitrobenzene		U	ug/kg	
				1,4-Dichlorobenzene		U	ug/kg	
				1,4-Naphthoquinone		U	ug/kg	340
				1-Naphthylamine		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B317-1053	0436970018SA	53-55	2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dichlorophenol		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Acetylaminofluorene		U	ug/kg	3400
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Naphthylamine		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				2-Picoline		U	ug/kg	340
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	340
				2-Toluidine		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	340
				3-Methylcholanthrene		U	ug/kg	340
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	340
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	340
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3400
				4-Phenylenediamine		U	ug/kg	3400
				5-Nitro-o-toluidine		U	ug/kg	340
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	340
				a,a-Dimethylphenethyl-amine		U	ug/kg	340
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Acetophenone		U	ug/kg	340
				Aniline		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Aramite		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B317-1053	0436970018SA	53-55	Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Diphenylamine		U	ug/kg	340
				Ethyl methanesulfonate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	340
				Methyl methanesulfonate		U	ug/kg	340
				N-Nitroso-di-n-butylamine		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiethylamine		U	ug/kg	
				N-Nitrosodimethylamine		U	ug/kg	
				N-Nitrosodiphenylamine		U	ug/kg	340
				N-Nitrosomethylethylamine		U	ug/kg	340
				N-Nitrosomorpholine		U	ug/kg	340
				N-Nitrosopiperidine		U	ug/kg	340
				N-Nitrosopyrrolidine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				p-Dimethylaminoazobenzene		U	ug/kg	340
				Pentachlorobenzene		U	ug/kg	340
				Pentachloroethane		U	ug/kg	340
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	340
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pronamide		U	ug/kg	340
				Pyrene		U	ug/kg	340
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	340
	CAN113-B318-1028	0436970019SA	28-29.9	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	
				2,4-Dinitrophenol		U	ug/kg	
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B318-1028	0436970019SA	28-29.9	2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B318-1033	0436970020SA	33-35	1,2,4-Trichlorobenzene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B318-1033	0436970020SA	33-35	1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	
				4-Nitrophenol		U	ug/kg	[illegible]
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	
				Hexachlorocyclopentadiene		U	ug/kg	
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B318-1033	0436970020SA	33-35	Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B318-1045	0437200016SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B318-1045	0437200016SA	45-47	Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B318-1055	0437200017SA	55-56.5	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	
				2,4-Dichlorophenol		U	ug/kg	[illegible]
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	
				Benzo(k)fluoranthene		U	ug/kg	
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B318-1055	0437200017SA	55-56.5	bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B318-1063	0437200018SA	63-63.8	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B318-1063	0437200018SA	63-63.8	2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	
				Aramite		U	ug/kg	[illegible]
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B318-1063	0437200018SA	63-63.8	Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
	CAN113-B319-1000	0437200019SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	330
				1,2-Dichlorobenzene		U	ug/kg	330
				1,3-Dichlorobenzene		U	ug/kg	330
				1,4-Dichlorobenzene		U	ug/kg	330
				2,4,5-Trichlorophenol		U	ug/kg	1600
				2,4,6-Trichlorophenol		U	ug/kg	330
				2,4-Dichlorophenol		U	ug/kg	330
				2,4-Dimethylphenol		U	ug/kg	330
				2,4-Dinitrophenol		U	ug/kg	1600
				2,4-Dinitrotoluene		U	ug/kg	330
				2,6-Dinitrotoluene		U	ug/kg	330
				2-Chloronaphthalene		U	ug/kg	330
				2-Chlorophenol		U	ug/kg	330
				2-Methylnaphthalene		U	ug/kg	330
				2-Methylphenol		U	ug/kg	330
				2-Nitroaniline		U	ug/kg	1600
				2-Nitrophenol		U	ug/kg	330
				3,3'-Dichlorobenzidine		U	ug/kg	670
				3-Nitroaniline		U	ug/kg	1600
				4,6-Dinitro-2-methylphenol		U	ug/kg	1600
				4-Bromophenyl phenyl ether		U	ug/kg	330
				4-Chloro-3-methylphenol		U	ug/kg	330
				4-Chloroaniline		U	ug/kg	330
				4-Chlorophenyl phenyl ether		U	ug/kg	330
				4-Methylphenol		U	ug/kg	330
				4-Nitroaniline		U	ug/kg	1600
				4-Nitrophenol		U	ug/kg	1600
				Acenaphthene		U	ug/kg	330
				Acenaphthylene		U	ug/kg	330

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B319-1000	0437200019SA	0-.5	Anthracene		U	ug/kg	330
				Benzo(a)anthracene		U	ug/kg	330
				Benzo(a)pyrene		U	ug/kg	330
				Benzo(b)fluoranthene		U	ug/kg	330
				Benzo(g,h,i)perylene		U	ug/kg	330
				Benzo(k)fluoranthene		U	ug/kg	330
				Benzoic acid		U	ug/kg	1600
				Benzyl alcohol		U	ug/kg	330
				bis(2-Chloroethoxy)methane		U	ug/kg	330
				bis(2-Chloroethyl) ether		U	ug/kg	330
				bis(2-Chloroisopropyl)ether		U	ug/kg	330
				bis(2-Ethylhexyl)phthalate		U	ug/kg	330
				Butyl benzyl phthalate		U	ug/kg	330
				Carbazole		U	ug/kg	330
				Chrysene		U	ug/kg	330
				Di-n-butyl phthalate		U	ug/kg	330
				Di-n-octyl phthalate		U	ug/kg	330
				Dibenz(a,h)anthracene		U	ug/kg	330
				Dibenzofuran		U	ug/kg	330
				Diethyl phthalate		U	ug/kg	330
				Dimethyl phthalate		U	ug/kg	330
				Fluoranthene		U	ug/kg	330
				Fluorene		U	ug/kg	330
				Hexachlorobenzene		U	ug/kg	330
				Hexachlorobutadiene		U	ug/kg	
				Hexachlorocyclopentadiene		U	ug/kg	[illegible]
				Hexachloroethane		U	ug/kg	330
				Indeno(1,2,3-cd)pyrene		U	ug/kg	330
				Isophorone		U	ug/kg	330
				N-Nitroso-di-n-propylamine		U	ug/kg	330
				N-Nitrosodiphenylamine		U	ug/kg	330
				Naphthalene		U	ug/kg	330
				Nitrobenzene		U	ug/kg	330
				Pentachlorophenol		U	ug/kg	1600
				Phenanthrene		U	ug/kg	330
				Phenol		U	ug/kg	330
				Pyrene		U	ug/kg	330
	CAN113-B319-1018	0437200020SA	18-20	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	
				2-Nitrophenol		U	ug/kg	
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B319-1018	0437200020SA	18-20	4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B319-1025	0437200021SA	25-27	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B319-1025	0437200021SA	25-27	2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	
				Benzo(k)fluoranthene		U	ug/kg	
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	
				Pentachlorophenol		U	ug/kg	
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B319-1025	0437200021SA	25-27	Pyrene		U	ug/kg	370
	CAN113-B319-1035	0437200022SA	35-35.9	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B319-1035	0437200022SA	35-35.9	Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B319-1045	0437200023SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	
				Carbazole		U	ug/kg	
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B319-1045	0437200023SA	45-47	Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B319-1053	0437200024SA	53-56.5	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B319-1053	0437200024SA	53-56.5	4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	
				bis(2-Chloroethyl) ether		U	ug/kg	[illegible]
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	
				N-Nitroso-di-n-propylamine		U	ug/kg	
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B319-1053	0437200024SA	53-56.5	N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
	CAN113-B320-1016	0436970001SA	16-17.5	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B320-1016	0436970001SA	16-17.5	bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	
				Pentachlorophenol		U	ug/kg	
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B320-1020	0436970002SA	20-22	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	
				4-Methylphenol		U	ug/kg	
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B320-1020	0436970002SA	20-22	Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B320-1030	0436970003SA	30-32	1,2,4-Trichlorobenzene		U	ug/kg	380
				1,2-Dichlorobenzene		U	ug/kg	380
				1,3-Dichlorobenzene		U	ug/kg	380
				1,4-Dichlorobenzene		U	ug/kg	380
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	380
				2,4-Dichlorophenol		U	ug/kg	380
				2,4-Dimethylphenol		U	ug/kg	380
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	380
				2,6-Dinitrotoluene		U	ug/kg	380
				2-Chloronaphthalene		U	ug/kg	380
				2-Chlorophenol		U	ug/kg	380
				2-Methylnaphthalene		U	ug/kg	380
				2-Methylphenol		U	ug/kg	380
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	380

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B320-1030	0436970003SA	30-32	3,3'-Dichlorobenzidine		U	ug/kg	760
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	380
				4-Chloro-3-methylphenol		U	ug/kg	380
				4-Chloroaniline		U	ug/kg	380
				4-Chlorophenyl phenyl ether		U	ug/kg	380
				4-Methylphenol		U	ug/kg	380
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	380
				Acenaphthylene		U	ug/kg	380
				Anthracene		U	ug/kg	380
				Benzo(a)anthracene		U	ug/kg	380
				Benzo(a)pyrene		U	ug/kg	380
				Benzo(b)fluoranthene		U	ug/kg	380
				Benzo(g,h,i)perylene		U	ug/kg	380
				Benzo(k)fluoranthene		U	ug/kg	380
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	380
				bis(2-Chloroethoxy)methane		U	ug/kg	380
				bis(2-Chloroethyl) ether		U	ug/kg	380
				bis(2-Chloroisopropyl)ether		U	ug/kg	380
				bis(2-Ethylhexyl)phthalate		U	ug/kg	380
				Butyl benzyl phthalate		U	ug/kg	
				Carbazole		U	ug/kg	[illegible]
				Chrysene		U	ug/kg	380
				Di-n-butyl phthalate		U	ug/kg	380
				Di-n-octyl phthalate		U	ug/kg	380
				Dibenz(a,h)anthracene		U	ug/kg	380
				Dibenzofuran		U	ug/kg	380
				Diethyl phthalate		U	ug/kg	380
				Dimethyl phthalate		U	ug/kg	380
				Fluoranthene		U	ug/kg	380
				Fluorene		U	ug/kg	380
				Hexachlorobenzene		U	ug/kg	380
				Hexachlorobutadiene		U	ug/kg	380
				Hexachlorocyclopentadiene		U	ug/kg	380
				Hexachloroethane		U	ug/kg	380
				Indeno(1,2,3-cd)pyrene		U	ug/kg	380
				Isophorone		U	ug/kg	380
				N-Nitroso-di-n-propylamine		U	ug/kg	380
				N-Nitrosodiphenylamine		U	ug/kg	380
				Naphthalene		U	ug/kg	380
				Nitrobenzene		U	ug/kg	380
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	380
				Phenol		U	ug/kg	380
				Pyrene		U	ug/kg	380
	CAN113-B320-1040	0436970004SA	40-41.8	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	
				2,4,5-Trichlorophenol		U	ug/kg	
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B320-1040	0436970004SA	40-41.8	2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B320-1040	0436970004SA	40-41.8	Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B320-1052	0436970005SA	52-53	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	
				2-Methylphenol		U	ug/kg	
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	
				Aniline		U	ug/kg	
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B320-1052	0436970005SA	52-53	Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	690

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B320-1052	0436970005SA	52-53	Safrole		U	ug/kg	350
	CAN113-B321-1022	0437350012SA	22-22.9	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	
				4-Methylphenol		U	ug/kg	[illegible]
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate	110	J	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	
				Hexachlorobenzene		U	ug/kg	
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B321-1022	0437350012SA	22-22.9	Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B321-1027	0437350013SA	27-29	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate	240	J	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B321-1027	0437350013SA	27-29	Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B321-1035	0437350014SA	35-35.8	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	
				2,4,5-Trichlorophenol		U	ug/kg	[illegible]
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	
				Benzo(b)fluoranthene		U	ug/kg	
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B321-1035	0437350014SA	35-35.8	Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	100	J	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B321-1045	0437350015SA	45-46.8	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B321-1045	0437350015SA	45-46.8	4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	
				Fluoranthene		U	ug/kg	[illegible]
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B321-1057	0437350016SA	57-58.8	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	
				2,4-Dichlorophenol		U	ug/kg	
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B321-1057	0437350016SA	57-58.8	2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B321-1057	0437350016SA	57-58.8	Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	710
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	
				Naphthalene		U	ug/kg	[illegible]
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	710
				Safrole		U	ug/kg	350
	CAN113-B322-1000	0436170012SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1600
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1600
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	
				2-Methylphenol		U	ug/kg	
				2-Nitroaniline		U	ug/kg	1600
				2-Nitrophenol		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B322-1000	0436170012SA	0-.5	3,3'-Dichlorobenzidine		U	ug/kg	680
				3-Nitroaniline		U	ug/kg	1600
				4,6-Dinitro-2-methylphenol		U	ug/kg	1600
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1600
				4-Nitrophenol		U	ug/kg	1600
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1600
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		UJ	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1600
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B322-1018	0436170001SA	18-20	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1600
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B322-1018	0436170001SA	18-20	2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1600
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1600
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	680
				3-Nitroaniline		U	ug/kg	1600
				4,6-Dinitro-2-methylphenol		U	ug/kg	1600
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1600
				4-Nitrophenol		U	ug/kg	1600
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	
				Benzo(b)fluoranthene		U	ug/kg	
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1600
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	
				Naphthalene		U	ug/kg	
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1600

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B322-1018	0436170001SA	18-20	Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B322-1025	0436170002SA	25-25.5	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B322-1025	0436170002SA	25-25.5	Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B322-1035	0436170003SA	35-36.2	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	
				2-Chlorophenol		U	ug/kg	[illegible]
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	
				bis(2-Ethylhexyl)phthalate		U	ug/kg	
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B322-1035	0436170003SA	35-36.2	Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B322-1045	0436170004SA	45-45.9	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B322-1045	0436170004SA	45-45.9	Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	
				N-Nitroso-di-n-propylamine		U	ug/kg	[illegible]
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B322-1056	0436170005SA	56.5-58.5	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		UJ	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	
				2-Chlorophenol		U	ug/kg	
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B322-1056	0436170005SA	56.5-58.5	2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		UJ	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		UJ	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		UJ	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		UJ	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate	42	J	ug/kg	350
				Butyl benzyl phthalate		UJ	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		UJ	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		UJ	ug/kg	350
				Hexachlorocyclopentadiene		UJ	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B322-1056	0436170005SA	56.5-58.5	Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	
				Phenanthrene		U	ug/kg	
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
	CAN113-B323-1019	0436170013SA	19-20.5	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	
				4-Chloroaniline		U	ug/kg	
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B323-1019	0436170013SA	19-20.5	4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B323-1024	0436170014SA	24-26	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B323-1024	0436170014SA	24-26	2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	
				bis(2-Ethylhexyl)phthalate		U	ug/kg	
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B323-1035	0436170015SA	35-36.3	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	
				1,3-Dichlorobenzene		U	ug/kg	
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B323-1035	0436170015SA	35-36.3	2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B323-1035	0436170015SA	35-36.3	Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B323-1045	0436170016SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	
				4-Bromophenyl phenyl ether		U	ug/kg	
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	
				Diethyl phthalate		U	ug/kg	
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B323-1045	0436170016SA	45-47	Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B323-1054	0436170017SA	54-55.1	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		UJ	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		UJ	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		UJ	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		UJ	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B323-1054	0436170017SA	54-55.1	4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		UJ	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		UJ	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	
				Di-n-butyl phthalate		U	ug/kg	
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		UJ	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		UJ	ug/kg	350
				Hexachlorocyclopentadiene		UJ	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	
				N-Nitrosopiperidine		U	ug/kg	
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B323-1054	0436170017SA	54-55.1	Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	350
	CAN113-B324-1024	0437200011SA	24-26	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B324-1024	0437200011SA	24-26	Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B324-1029	0437200012SA	29-29.8	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	
				1,3-Dichlorobenzene		U	ug/kg	[illegible]
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol	68	J	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	
				Benzo(a)anthracene		U	ug/kg	
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B324-1029	0437200012SA	29-29.8	Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	65	J	ug/kg	360
				Butyl benzyl phthalate	40	J	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B324-1040	0437200013SA	40-42	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B324-1040	0437200013SA	40-42	4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	
				Diethyl phthalate		U	ug/kg	
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B324-1050	0437200014SA	50-50.8	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	
				2,6-Dinitrotoluene		U	ug/kg	
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B324-1050	0437200014SA	50-50.8	2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B324-1059	0437200015SA	59-60	1,2,4,5-Tetrachloro-benzene		U	ug/kg	360
				1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B324-1059	0437200015SA	59-60	1,3,5-Trinitrobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,3-Dinitrobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				1,4-Naphthoquinone		U	ug/kg	360
				1-Naphthylamine		U	ug/kg	360
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dichlorophenol		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Acetylaminofluorene		U	ug/kg	3600
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Naphthylamine		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				2-Picoline		U	ug/kg	360
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	
				2-Toluidine		U	ug/kg	
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3,3'-Dimethylbenzidine		U	ug/kg	360
				3-Methylcholanthrene		U	ug/kg	360
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	360
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	360
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3600
				4-Phenylenediamine		U	ug/kg	3600
				5-Nitro-o-toluidine		U	ug/kg	360
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	360
				a,a-Dimethylphenethyl-amine		U	ug/kg	360
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Acetophenone		U	ug/kg	360
				Aniline		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Aramite		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	
				Benzo(g,h,i)perylene		U	ug/kg	
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzyl alcohol		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B324-1059	0437200015SA	59-60	bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Diphenylamine		U	ug/kg	360
				Ethyl methanesulfonate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				Isosafrole		U	ug/kg	710
				Methapyrilene		U	ug/kg	360
				Methyl methanesulfonate		U	ug/kg	360
				N-Nitroso-di-n-butylamine		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiethylamine		U	ug/kg	360
				N-Nitrosodimethylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				N-Nitrosomethylethylamine		U	ug/kg	360
				N-Nitrosomorpholine		U	ug/kg	360
				N-Nitrosopiperidine		U	ug/kg	360
				N-Nitrosopyrrolidine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				p-Dimethylaminoazobenzene		U	ug/kg	360
				Pentachlorobenzene		U	ug/kg	360
				Pentachloroethane		U	ug/kg	360
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	360
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pronamide		U	ug/kg	360
				Pyrene		U	ug/kg	360
				Pyridine		U	ug/kg	710
				Safrole		U	ug/kg	360
	CAN113-B325-1000	0436170006SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B325-1000	0436170006SA	0-.5	2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	680
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	
				Benzo(a)anthracene		U	ug/kg	
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	
				N-Nitroso-di-n-propylamine		U	ug/kg	
				N-Nitrosodiphenylamine		UJ	ug/kg	340
				Naphthalene		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B325-1000	0436170006SA	0-.5	Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B325-1024	0436170007SA	24-26	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B325-1024	0436170007SA	24-26	Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		UJ	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B325-1030	0436170008SA	30-30.9	1,2,4-Trichlorobenzene		U	ug/kg	400
				1,2-Dichlorobenzene		U	ug/kg	400
				1,3-Dichlorobenzene		U	ug/kg	400
				1,4-Dichlorobenzene		U	ug/kg	400
				2,4,5-Trichlorophenol		U	ug/kg	1900
				2,4,6-Trichlorophenol		U	ug/kg	400
				2,4-Dichlorophenol		U	ug/kg	400
				2,4-Dimethylphenol		U	ug/kg	400
				2,4-Dinitrophenol		U	ug/kg	1900
				2,4-Dinitrotoluene		U	ug/kg	
				2,6-Dinitrotoluene		U	ug/kg	
				2-Chloronaphthalene		U	ug/kg	400
				2-Chlorophenol		U	ug/kg	400
				2-Methylnaphthalene		U	ug/kg	400
				2-Methylphenol		U	ug/kg	400
				2-Nitroaniline		U	ug/kg	1900
				2-Nitrophenol		U	ug/kg	400
				3,3'-Dichlorobenzidine		U	ug/kg	800
				3-Nitroaniline		U	ug/kg	1900
				4,6-Dinitro-2-methylphenol		U	ug/kg	1900
				4-Bromophenyl phenyl ether		U	ug/kg	400
				4-Chloro-3-methylphenol		U	ug/kg	400
				4-Chloroaniline		U	ug/kg	400
				4-Chlorophenyl phenyl ether		U	ug/kg	400
				4-Methylphenol		U	ug/kg	400
				4-Nitroaniline		U	ug/kg	1900
				4-Nitrophenol		U	ug/kg	1900
				Acenaphthene		U	ug/kg	400
				Acenaphthylene		U	ug/kg	400
				Anthracene		U	ug/kg	400
				Benzo(a)anthracene		U	ug/kg	400
				Benzo(a)pyrene		U	ug/kg	400
				Benzo(b)fluoranthene		U	ug/kg	400
				Benzo(g,h,i)perylene		U	ug/kg	400
				Benzo(k)fluoranthene		U	ug/kg	400
				Benzoic acid		U	ug/kg	1900
				Benzyl alcohol		U	ug/kg	400
				bis(2-Chloroethoxy)methane		U	ug/kg	
				bis(2-Chloroethyl) ether		U	ug/kg	
				bis(2-Chloroisopropyl)ether		U	ug/kg	400
				bis(2-Ethylhexyl)phthalate		U	ug/kg	400

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B325-1030	0436170008SA	30-30.9	Butyl benzyl phthalate		U	ug/kg	400
				Carbazole		U	ug/kg	400
				Chrysene		U	ug/kg	400
				Di-n-butyl phthalate		U	ug/kg	400
				Di-n-octyl phthalate		U	ug/kg	400
				Dibenz(a,h)anthracene		U	ug/kg	400
				Dibenzofuran		U	ug/kg	400
				Diethyl phthalate		U	ug/kg	400
				Dimethyl phthalate		U	ug/kg	400
				Fluoranthene		U	ug/kg	400
				Fluorene		U	ug/kg	400
				Hexachlorobenzene		U	ug/kg	400
				Hexachlorobutadiene		U	ug/kg	400
				Hexachlorocyclopentadiene		U	ug/kg	400
				Hexachloroethane		U	ug/kg	400
				Indeno(1,2,3-cd)pyrene		U	ug/kg	400
				Isophorone		U	ug/kg	400
				N-Nitroso-di-n-propylamine		U	ug/kg	400
				N-Nitrosodiphenylamine		UJ	ug/kg	400
				Naphthalene		U	ug/kg	400
				Nitrobenzene		U	ug/kg	400
				Pentachlorophenol		U	ug/kg	1900
				Phenanthrene		U	ug/kg	400
				Phenol		U	ug/kg	400
				Pyrene		U	ug/kg	400
	CAN113-B325-1040	0436170009SA	40-42	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B325-1040	0436170009SA	40-42	Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	
				Indeno(1,2,3-cd)pyrene		U	ug/kg	
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		UJ	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B325-1050	0436170010SA	50-50.5	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	
				3-Nitroaniline		U	ug/kg	
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B325-1050	0436170010SA	50-50.5	4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		UJ	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B325-1060	0436170011SA	60-62	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B325-1060	0436170011SA	60-62	2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		UJ	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		UJ	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		UJ	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	
				4-Bromophenyl phenyl ether		U	ug/kg	
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		UJ	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		UJ	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate	160	J	ug/kg	350
				Butyl benzyl phthalate		UJ	ug/kg	
				Carbazole		U	ug/kg	
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B325-1060	0436170011SA	60-62	Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		UJ	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		UJ	ug/kg	350
				Hexachlorocyclopentadiene		UJ	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	710
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	710
				Safrole		U	ug/kg	350
	CAN113-B326-1021	0436190001SA	21.5-23	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B326-1021	0436190001SA	21.5-23	2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	
				bis(2-Chloroethyl) ether		U	ug/kg	
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	
	CAN113-B326-1027	0436190003SA	27-29	1,2,4-Trichlorobenzene		U	ug/kg	
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B326-1027	0436190003SA	27-29	1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate	43	J	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B326-1027	0436190003SA	27-29	N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B326-1037	0436190004SA	37-39	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	
				3-Nitroaniline		U	ug/kg	
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	
				Dibenz(a,h)anthracene		U	ug/kg	
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B326-1037	0436190004SA	37-39	Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B326-1047	0436190005SA	47-47.5	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B326-1047	0436190005SA	47-47.5	bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	
				Phenol		U	ug/kg	
				Pyrene		U	ug/kg	370
	CAN113-B326-1055	0436190006SA	55-56.5	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	
				2-Picoline		U	ug/kg	
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B326-1055	0436190006SA	55-56.5	3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B326-1055	0436190006SA	55-56.5	Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	
	CAN113-B327-1021	0436190013SA	21-23	1,2,4-Trichlorobenzene		UJ	ug/kg	
				1,2-Dichlorobenzene		UJ	ug/kg	360
				1,3-Dichlorobenzene		UJ	ug/kg	360
				1,4-Dichlorobenzene		UJ	ug/kg	360
				2,4,5-Trichlorophenol		UJ	ug/kg	1700
				2,4,6-Trichlorophenol		UJ	ug/kg	360
				2,4-Dichlorophenol		UJ	ug/kg	360
				2,4-Dimethylphenol		UJ	ug/kg	360
				2,4-Dinitrophenol		UJ	ug/kg	1700
				2,4-Dinitrotoluene		UJ	ug/kg	360
				2,6-Dinitrotoluene		UJ	ug/kg	360
				2-Chloronaphthalene		UJ	ug/kg	360
				2-Chlorophenol		UJ	ug/kg	360
				2-Methylnaphthalene		UJ	ug/kg	360
				2-Methylphenol		UJ	ug/kg	360
				2-Nitroaniline		UJ	ug/kg	1700
				2-Nitrophenol		UJ	ug/kg	360
				3,3'-Dichlorobenzidine		UJ	ug/kg	710
				3-Nitroaniline		UJ	ug/kg	1700
				4,6-Dinitro-2-methylphenol		UJ	ug/kg	1700
				4-Bromophenyl phenyl ether		UJ	ug/kg	360
				4-Chloro-3-methylphenol		UJ	ug/kg	360
				4-Chloroaniline		UJ	ug/kg	360
				4-Chlorophenyl phenyl ether		UJ	ug/kg	360
				4-Methylphenol		UJ	ug/kg	360
				4-Nitroaniline		UJ	ug/kg	1700
				4-Nitrophenol		UJ	ug/kg	1700
				Acenaphthene		UJ	ug/kg	
				Acenaphthylene		UJ	ug/kg	
				Anthracene		UJ	ug/kg	360
				Benzo(a)anthracene		UJ	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B327-1021	0436190013SA	21-23	Benzo(a)pyrene		UJ	ug/kg	360
				Benzo(b)fluoranthene		UJ	ug/kg	360
				Benzo(g,h,i)perylene		UJ	ug/kg	360
				Benzo(k)fluoranthene		UJ	ug/kg	360
				Benzoic acid		UJ	ug/kg	1700
				Benzyl alcohol		UJ	ug/kg	360
				bis(2-Chloroethoxy)methane		UJ	ug/kg	360
				bis(2-Chloroethyl) ether		UJ	ug/kg	360
				bis(2-Chloroisopropyl)ether		UJ	ug/kg	360
				bis(2-Ethylhexyl)phthalate		UJ	ug/kg	360
				Butyl benzyl phthalate		UJ	ug/kg	360
				Carbazole		UJ	ug/kg	360
				Chrysene		UJ	ug/kg	360
				Di-n-butyl phthalate		UJ	ug/kg	360
				Di-n-octyl phthalate		UJ	ug/kg	360
				Dibenz(a,h)anthracene		UJ	ug/kg	360
				Dibenzofuran		UJ	ug/kg	360
				Diethyl phthalate		UJ	ug/kg	360
				Dimethyl phthalate		UJ	ug/kg	360
				Fluoranthene		UJ	ug/kg	360
				Fluorene		UJ	ug/kg	360
				Hexachlorobenzene		UJ	ug/kg	360
				Hexachlorobutadiene		UJ	ug/kg	360
				Hexachlorocyclopentadiene		UJ	ug/kg	360
				Hexachloroethane		UJ	ug/kg	360
				Indeno(1,2,3-cd)pyrene		UJ	ug/kg	360
				Isophorone		UJ	ug/kg	360
				N-Nitroso-di-n-propylamine		UJ	ug/kg	360
				N-Nitrosodiphenylamine		UJ	ug/kg	360
				Naphthalene		UJ	ug/kg	360
				Nitrobenzene		UJ	ug/kg	360
				Pentachlorophenol		UJ	ug/kg	1700
				Phenanthrene		UJ	ug/kg	360
				Phenol		UJ	ug/kg	360
				Pyrene		UJ	ug/kg	360
	CAN113-B327-1024	0436190014SA	24.5-26.5	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B327-1024	0436190014SA	24.5-26.5	4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	
				Dibenz(a,h)anthracene		U	ug/kg	[illegible]
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B327-1034	0436190015SA	34.5-36.5	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	
				2,4-Dinitrophenol		U	ug/kg	
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B327-1034	0436190015SA	34.5-36.5	2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B327-1044	0436190016SA	44.5-46	1,2,4-Trichlorobenzene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B327-1044	0436190016SA	44.5-46	1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	
				4-Nitrophenol		U	ug/kg	1
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	
				Hexachlorocyclopentadiene		U	ug/kg	
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B327-1044	0436190016SA	44.5-46	Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B327-1057	0436190017SA	57.5-58.1	1,2,4,5-Tetrachloro-benzene		U	ug/kg	340
				1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3,5-Trinitrobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,3-Dinitrobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				1,4-Naphthoquinone		U	ug/kg	340
				1-Naphthylamine		U	ug/kg	340
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dichlorophenol		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Acetylaminofluorene		U	ug/kg	3400
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Naphthylamine		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				2-Picoline		U	ug/kg	340
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	340
				2-Toluidine		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3,3'-Dimethylbenzidine		U	ug/kg	340
				3-Methylcholanthrene		U	ug/kg	340
				3-Nitroaniline		U	ug/kg	1700
				3/4-Methylphenol		U	ug/kg	340
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Aminobiphenyl		U	ug/kg	340
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3400
				4-Phenylenediamine		U	ug/kg	3400
				5-Nitro-o-toluidine		U	ug/kg	340
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	340
				a,a-Dimethylphenethyl-amine		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B327-1057	0436190017SA	57.5-58.1	Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Acetophenone		U	ug/kg	340
				Aniline		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Aramite		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	
				Diphenylamine		U	ug/kg	
				Ethyl methanesulfonate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				Isosafrole		U	ug/kg	690
				Methapyrilene		U	ug/kg	340
				Methyl methanesulfonate		U	ug/kg	340
				N-Nitroso-di-n-butylamine		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiethylamine		U	ug/kg	340
				N-Nitrosodimethylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				N-Nitrosomethylethylamine		U	ug/kg	340
				N-Nitrosomorpholine		U	ug/kg	340
				N-Nitrosopiperidine		U	ug/kg	340
				N-Nitrosopyrrolidine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				p-Dimethylaminoazobenzene		U	ug/kg	340
				Pentachlorobenzene		U	ug/kg	
				Pentachloroethane		U	ug/kg	
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B327-1057	0436190017SA	57.5-58.1	Phenacetin		U	ug/kg	340
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pronamide		U	ug/kg	340
				Pyrene		U	ug/kg	340
				Pyridine		U	ug/kg	690
				Safrole		U	ug/kg	340
	CAN113-B328-1000	0436180006SA	0-.5	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	680
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	340
				Benzo(k)fluoranthene		U	ug/kg	340
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B328-1000	0436180006SA	0-.5	Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	340
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340
				Pyrene		U	ug/kg	340
	CAN113-B328-1020	0436180007SA	20-21.5	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	
				2,4-Dinitrophenol		U	ug/kg	
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	
				Benzyl alcohol		U	ug/kg	
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B328-1020	0436180007SA	20-21.5	bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B328-1025	0436180008SA	25-27	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B328-1025	0436180008SA	25-27	Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	
				Hexachlorocyclopentadiene		U	ug/kg	
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B328-1035	0436180009SA	35-37	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	
				2-Nitrophenol		U	ug/kg	
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B328-1035	0436180009SA	35-37	4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B328-1045	0436180010SA	45-47	1,2,4-Trichlorobenzene		U	ug/kg	340
				1,2-Dichlorobenzene		U	ug/kg	340
				1,3-Dichlorobenzene		U	ug/kg	340
				1,4-Dichlorobenzene		U	ug/kg	340
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	340
				2,4-Dichlorophenol		U	ug/kg	340
				2,4-Dimethylphenol		U	ug/kg	340
				2,4-Dinitrophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B328-1045	0436180010SA	45-47	2,4-Dinitrotoluene		U	ug/kg	340
				2,6-Dinitrotoluene		U	ug/kg	340
				2-Chloronaphthalene		U	ug/kg	340
				2-Chlorophenol		U	ug/kg	340
				2-Methylnaphthalene		U	ug/kg	340
				2-Methylphenol		U	ug/kg	340
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	340
				3,3'-Dichlorobenzidine		U	ug/kg	690
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	340
				4-Chloro-3-methylphenol		U	ug/kg	340
				4-Chloroaniline		U	ug/kg	340
				4-Chlorophenyl phenyl ether		U	ug/kg	340
				4-Methylphenol		U	ug/kg	340
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	340
				Acenaphthylene		U	ug/kg	340
				Anthracene		U	ug/kg	340
				Benzo(a)anthracene		U	ug/kg	340
				Benzo(a)pyrene		U	ug/kg	340
				Benzo(b)fluoranthene		U	ug/kg	340
				Benzo(g,h,i)perylene		U	ug/kg	
				Benzo(k)fluoranthene		U	ug/kg	
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	340
				bis(2-Chloroethoxy)methane		U	ug/kg	340
				bis(2-Chloroethyl) ether		U	ug/kg	340
				bis(2-Chloroisopropyl)ether		U	ug/kg	340
				bis(2-Ethylhexyl)phthalate		U	ug/kg	340
				Butyl benzyl phthalate		U	ug/kg	340
				Carbazole		U	ug/kg	340
				Chrysene		U	ug/kg	340
				Di-n-butyl phthalate		U	ug/kg	340
				Di-n-octyl phthalate		U	ug/kg	340
				Dibenz(a,h)anthracene		U	ug/kg	340
				Dibenzofuran		U	ug/kg	340
				Diethyl phthalate		U	ug/kg	340
				Dimethyl phthalate		U	ug/kg	340
				Fluoranthene		U	ug/kg	340
				Fluorene		U	ug/kg	340
				Hexachlorobenzene		U	ug/kg	340
				Hexachlorobutadiene		U	ug/kg	340
				Hexachlorocyclopentadiene		U	ug/kg	340
				Hexachloroethane		U	ug/kg	340
				Indeno(1,2,3-cd)pyrene		U	ug/kg	340
				Isophorone		U	ug/kg	340
				N-Nitroso-di-n-propylamine		U	ug/kg	340
				N-Nitrosodiphenylamine		U	ug/kg	340
				Naphthalene		U	ug/kg	340
				Nitrobenzene		U	ug/kg	
				Pentachlorophenol		U	ug/kg	
				Phenanthrene		U	ug/kg	340
				Phenol		U	ug/kg	340

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B328-1045	0436180010SA	45-47	Pyrene		U	ug/kg	340
	CAN113-B328-1055	0436180011SA	55-57	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	350
				3-Nitroaniline		U	ug/kg	1800
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				4-Nitroquinoline-1-oxide		U	ug/kg	350
				4-Phenylenediamine		U	ug/kg	350
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B328-1055	0436180011SA	55-57	Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	350
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1800
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	
				Pyridine		U	ug/kg	
				Safrole		U	ug/kg	350
	CAN113-B329-1014	0436180001SA	14-16	1,2,4-Trichlorobenzene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B329-1014	0436180001SA	14-16	1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	750
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	370
				Di-n-butyl phthalate		U	ug/kg	370
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B329-1014	0436180001SA	14-16	Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B329-1020	0436180002SA	20-22	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	
				2-Nitrophenol		U	ug/kg	[illegible]
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	
				Di-n-butyl phthalate		U	ug/kg	
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B329-1020	0436180002SA	20-22	Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B329-1030	0436180003SA	30-32	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B329-1030	0436180003SA	30-32	bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	
				Pentachlorophenol		U	ug/kg	[illegible]
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B329-1040	0436180004SA	40-42	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	
				4-Methylphenol		U	ug/kg	
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B329-1040	0436180004SA	40-42	Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B329-1050	0436180005SA	50-51.8	1,2,4,5-Tetrachloro-benzene		U	ug/kg	360
				1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3,5-Trinitrobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,3-Dinitrobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				1,4-Naphthoquinone		U	ug/kg	360
				1-Naphthylamine		U	ug/kg	360
				2,3,4,6-Tetrachlorophenol		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dichlorophenol		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B329-1050	0436180005SA	50-51.8	2,6-Dinitrotoluene		U	ug/kg	360
				2-Acetylaminofluorene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Naphthylamine		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				2-Picoline		U	ug/kg	360
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	360
				2-Toluidine		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3,3'-Dimethylbenzidine		U	ug/kg	360
				3-Methylcholanthrene		U	ug/kg	360
				3-Nitroaniline		U	ug/kg	1800
				3/4-Methylphenol		U	ug/kg	360
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Aminobiphenyl		U	ug/kg	360
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	
				4-Nitroquinoline-1-oxide		U	ug/kg	
				4-Phenylenediamine		U	ug/kg	360
				5-Nitro-o-toluidine		U	ug/kg	360
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	360
				a,a-Dimethylphenethyl-amine		U	ug/kg	360
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Acetophenone		U	ug/kg	360
				Aniline		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Aramite		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	
				Diethyl phthalate		U	ug/kg	
				Dimethyl phthalate		U	ug/kg	360
				Diphenylamine		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B329-1050	0436180005SA	50-51.8	Ethyl methanesulfonate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				Isosafrole		U	ug/kg	360
				Methapyrilene		U	ug/kg	360
				Methyl methanesulfonate		U	ug/kg	360
				N-Nitroso-di-n-butylamine		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiethylamine		U	ug/kg	360
				N-Nitrosodimethylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				N-Nitrosomethylethylamine		U	ug/kg	360
				N-Nitrosomorpholine		U	ug/kg	360
				N-Nitrosopiperidine		U	ug/kg	360
				N-Nitrosopyrrolidine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				p-Dimethylaminoazobenzene		U	ug/kg	360
				Pentachlorobenzene		U	ug/kg	360
				Pentachloroethane		U	ug/kg	360
				Pentachloronitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenacetin		U	ug/kg	360
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pronamide		U	ug/kg	360
				Pyrene		U	ug/kg	360
				Pyridine		U	ug/kg	360
				Safrole		U	ug/kg	360
	CAN113-B330-1014	0436190007SA	14.5-16.5	1,2,4-Trichlorobenzene		U	ug/kg	370
				1,2-Dichlorobenzene		U	ug/kg	370
				1,3-Dichlorobenzene		U	ug/kg	370
				1,4-Dichlorobenzene		U	ug/kg	370
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	370
				2,4-Dichlorophenol		U	ug/kg	370
				2,4-Dimethylphenol		U	ug/kg	370
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	370
				2,6-Dinitrotoluene		U	ug/kg	370
				2-Chloronaphthalene		U	ug/kg	370
				2-Chlorophenol		U	ug/kg	370
				2-Methylnaphthalene		U	ug/kg	370
				2-Methylphenol		U	ug/kg	370
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	370
				3,3'-Dichlorobenzidine		U	ug/kg	740
				3-Nitroaniline		U	ug/kg	1800

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B330-1014	0436190007SA	14.5-16.5	4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	370
				4-Chloro-3-methylphenol		U	ug/kg	370
				4-Chloroaniline		U	ug/kg	370
				4-Chlorophenyl phenyl ether		U	ug/kg	370
				4-Methylphenol		U	ug/kg	370
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	370
				Acenaphthylene		U	ug/kg	370
				Anthracene		U	ug/kg	370
				Benzo(a)anthracene		U	ug/kg	370
				Benzo(a)pyrene		U	ug/kg	370
				Benzo(b)fluoranthene		U	ug/kg	370
				Benzo(g,h,i)perylene		U	ug/kg	370
				Benzo(k)fluoranthene		U	ug/kg	370
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	370
				bis(2-Chloroethoxy)methane		U	ug/kg	370
				bis(2-Chloroethyl) ether		U	ug/kg	370
				bis(2-Chloroisopropyl)ether		U	ug/kg	370
				bis(2-Ethylhexyl)phthalate		U	ug/kg	370
				Butyl benzyl phthalate		U	ug/kg	370
				Carbazole		U	ug/kg	370
				Chrysene		U	ug/kg	
				Di-n-butyl phthalate		U	ug/kg	
				Di-n-octyl phthalate		U	ug/kg	370
				Dibenz(a,h)anthracene		U	ug/kg	370
				Dibenzofuran		U	ug/kg	370
				Diethyl phthalate		U	ug/kg	370
				Dimethyl phthalate		U	ug/kg	370
				Fluoranthene		U	ug/kg	370
				Fluorene		U	ug/kg	370
				Hexachlorobenzene		U	ug/kg	370
				Hexachlorobutadiene		U	ug/kg	370
				Hexachlorocyclopentadiene		U	ug/kg	370
				Hexachloroethane		U	ug/kg	370
				Indeno(1,2,3-cd)pyrene		U	ug/kg	370
				Isophorone		U	ug/kg	370
				N-Nitroso-di-n-propylamine		U	ug/kg	370
				N-Nitrosodiphenylamine		U	ug/kg	370
				Naphthalene		U	ug/kg	370
				Nitrobenzene		U	ug/kg	370
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	370
				Phenol		U	ug/kg	370
				Pyrene		U	ug/kg	370
	CAN113-B330-1020	0436190008SA	20-21.3	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	
				2,4-Dichlorophenol		U	ug/kg	
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B330-1020	0436190008SA	20-21.3	2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	720
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	360
				4-Methylphenol		U	ug/kg	360
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	360
				Hexachlorobenzene		U	ug/kg	360
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360
				Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B330-1020	0436190008SA	20-21.3	Pyrene		U	ug/kg	360
	CAN113-B330-1030	0436190010SA	30-32	1,2,4-Trichlorobenzene		U	ug/kg	360
				1,2-Dichlorobenzene		U	ug/kg	360
				1,3-Dichlorobenzene		U	ug/kg	360
				1,4-Dichlorobenzene		U	ug/kg	360
				2,4,5-Trichlorophenol		U	ug/kg	1800
				2,4,6-Trichlorophenol		U	ug/kg	360
				2,4-Dichlorophenol		U	ug/kg	360
				2,4-Dimethylphenol		U	ug/kg	360
				2,4-Dinitrophenol		U	ug/kg	1800
				2,4-Dinitrotoluene		U	ug/kg	360
				2,6-Dinitrotoluene		U	ug/kg	360
				2-Chloronaphthalene		U	ug/kg	360
				2-Chlorophenol		U	ug/kg	360
				2-Methylnaphthalene		U	ug/kg	360
				2-Methylphenol		U	ug/kg	360
				2-Nitroaniline		U	ug/kg	1800
				2-Nitrophenol		U	ug/kg	360
				3,3'-Dichlorobenzidine		U	ug/kg	730
				3-Nitroaniline		U	ug/kg	1800
				4,6-Dinitro-2-methylphenol		U	ug/kg	1800
				4-Bromophenyl phenyl ether		U	ug/kg	360
				4-Chloro-3-methylphenol		U	ug/kg	360
				4-Chloroaniline		U	ug/kg	360
				4-Chlorophenyl phenyl ether		U	ug/kg	
				4-Methylphenol		U	ug/kg	
				4-Nitroaniline		U	ug/kg	1800
				4-Nitrophenol		U	ug/kg	1800
				Acenaphthene		U	ug/kg	360
				Acenaphthylene		U	ug/kg	360
				Anthracene		U	ug/kg	360
				Benzo(a)anthracene		U	ug/kg	360
				Benzo(a)pyrene		U	ug/kg	360
				Benzo(b)fluoranthene		U	ug/kg	360
				Benzo(g,h,i)perylene		U	ug/kg	360
				Benzo(k)fluoranthene		U	ug/kg	360
				Benzoic acid		U	ug/kg	1800
				Benzyl alcohol		U	ug/kg	360
				bis(2-Chloroethoxy)methane		U	ug/kg	360
				bis(2-Chloroethyl) ether		U	ug/kg	360
				bis(2-Chloroisopropyl)ether		U	ug/kg	360
				bis(2-Ethylhexyl)phthalate		U	ug/kg	360
				Butyl benzyl phthalate		U	ug/kg	360
				Carbazole		U	ug/kg	360
				Chrysene		U	ug/kg	360
				Di-n-butyl phthalate		U	ug/kg	360
				Di-n-octyl phthalate		U	ug/kg	360
				Dibenz(a,h)anthracene		U	ug/kg	360
				Dibenzofuran		U	ug/kg	360
				Diethyl phthalate		U	ug/kg	360
				Dimethyl phthalate		U	ug/kg	360
				Fluoranthene		U	ug/kg	360
				Fluorene		U	ug/kg	
				Hexachlorobenzene		U	ug/kg	
				Hexachlorobutadiene		U	ug/kg	360
				Hexachlorocyclopentadiene		U	ug/kg	360

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B330-1030	0436190010SA	30-32	Hexachloroethane		U	ug/kg	360
				Indeno(1,2,3-cd)pyrene		U	ug/kg	360
				Isophorone		U	ug/kg	360
				N-Nitroso-di-n-propylamine		U	ug/kg	360
				N-Nitrosodiphenylamine		U	ug/kg	360
				Naphthalene		U	ug/kg	360
				Nitrobenzene		U	ug/kg	360
				Pentachlorophenol		U	ug/kg	1800
				Phenanthrene		U	ug/kg	360
				Phenol		U	ug/kg	360
				Pyrene		U	ug/kg	360
	CAN113-B330-1040	0436190011SA	40-42	1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3-Dichlorobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	710
				3-Nitroaniline		U	ug/kg	1700
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Methylphenol		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzoic acid		U	ug/kg	1700
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B330-1040	0436190011SA	40-42	Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiphenylamine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				Pentachlorophenol		U	ug/kg	1700
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pyrene		U	ug/kg	350
	CAN113-B330-1050	0436190012SA	50-52	1,2,4,5-Tetrachloro-benzene		U	ug/kg	350
				1,2,4-Trichlorobenzene		U	ug/kg	350
				1,2-Dichlorobenzene		U	ug/kg	350
				1,3,5-Trinitrobenzene		U	ug/kg	
				1,3-Dichlorobenzene		U	ug/kg	
				1,3-Dinitrobenzene		U	ug/kg	350
				1,4-Dichlorobenzene		U	ug/kg	350
				1,4-Naphthoquinone		U	ug/kg	350
				1-Naphthylamine		U	ug/kg	350
				2,3,4,6-Tetrachlorophenol		U	ug/kg	1700
				2,4,5-Trichlorophenol		U	ug/kg	1700
				2,4,6-Trichlorophenol		U	ug/kg	350
				2,4-Dichlorophenol		U	ug/kg	350
				2,4-Dimethylphenol		U	ug/kg	350
				2,4-Dinitrophenol		U	ug/kg	1700
				2,4-Dinitrotoluene		U	ug/kg	350
				2,6-Dichlorophenol		U	ug/kg	350
				2,6-Dinitrotoluene		U	ug/kg	350
				2-Acetylaminofluorene		U	ug/kg	3500
				2-Chloronaphthalene		U	ug/kg	350
				2-Chlorophenol		U	ug/kg	350
				2-Methylnaphthalene		U	ug/kg	350
				2-Methylphenol		U	ug/kg	350
				2-Naphthylamine		U	ug/kg	350
				2-Nitroaniline		U	ug/kg	1700
				2-Nitrophenol		U	ug/kg	350
				2-Picoline		U	ug/kg	350
				2-sec-Butyl-4,6-dinitro-phenol		U	ug/kg	350
				2-Toluidine		U	ug/kg	350
				3,3'-Dichlorobenzidine		U	ug/kg	700
				3,3'-Dimethylbenzidine		U	ug/kg	350
				3-Methylcholanthrene		U	ug/kg	
				3-Nitroaniline		U	ug/kg	
				3/4-Methylphenol		U	ug/kg	350
				4,6-Dinitro-2-methylphenol		U	ug/kg	1700

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B330-1050	0436190012SA	50-52	4-Aminobiphenyl		U	ug/kg	350
				4-Bromophenyl phenyl ether		U	ug/kg	350
				4-Chloro-3-methylphenol		U	ug/kg	350
				4-Chloroaniline		U	ug/kg	350
				4-Chlorophenyl phenyl ether		U	ug/kg	350
				4-Nitroaniline		U	ug/kg	1700
				4-Nitrophenol		U	ug/kg	1700
				4-Nitroquinoline-1-oxide		U	ug/kg	3500
				4-Phenylenediamine		U	ug/kg	3500
				5-Nitro-o-toluidine		U	ug/kg	350
				7,12-Dimethylbenz(a)-anthracene		U	ug/kg	350
				a,a-Dimethylphenethyl-amine		U	ug/kg	350
				Acenaphthene		U	ug/kg	350
				Acenaphthylene		U	ug/kg	350
				Acetophenone		U	ug/kg	350
				Aniline		U	ug/kg	350
				Anthracene		U	ug/kg	350
				Aramite		U	ug/kg	350
				Benzo(a)anthracene		U	ug/kg	350
				Benzo(a)pyrene		U	ug/kg	350
				Benzo(b)fluoranthene		U	ug/kg	350
				Benzo(g,h,i)perylene		U	ug/kg	350
				Benzo(k)fluoranthene		U	ug/kg	350
				Benzyl alcohol		U	ug/kg	350
				bis(2-Chloroethoxy)methane		U	ug/kg	350
				bis(2-Chloroethyl) ether		U	ug/kg	350
				bis(2-Chloroisopropyl)ether		U	ug/kg	350
				bis(2-Ethylhexyl)phthalate		U	ug/kg	350
				Butyl benzyl phthalate		U	ug/kg	350
				Carbazole		U	ug/kg	350
				Chrysene		U	ug/kg	350
				Di-n-butyl phthalate		U	ug/kg	350
				Di-n-octyl phthalate		U	ug/kg	350
				Dibenz(a,h)anthracene		U	ug/kg	350
				Dibenzofuran		U	ug/kg	350
				Diethyl phthalate		U	ug/kg	350
				Dimethyl phthalate		U	ug/kg	350
				Diphenylamine		U	ug/kg	350
				Ethyl methanesulfonate		U	ug/kg	350
				Fluoranthene		U	ug/kg	350
				Fluorene		U	ug/kg	350
				Hexachlorobenzene		U	ug/kg	350
				Hexachlorobutadiene		U	ug/kg	350
				Hexachlorocyclopentadiene		U	ug/kg	350
				Hexachloroethane		U	ug/kg	350
				Hexachlorophene		U	ug/kg	
				Hexachloropropene		U	ug/kg	350
				Indeno(1,2,3-cd)pyrene		U	ug/kg	350
				Isophorone		U	ug/kg	350
				Isosafrole		U	ug/kg	700
				Methapyrilene		U	ug/kg	350
				Methyl methanesulfonate		U	ug/kg	350
				N-Nitroso-di-n-butylamine		U	ug/kg	350
				N-Nitroso-di-n-propylamine		U	ug/kg	350
				N-Nitrosodiethylamine		U	ug/kg	350
				N-Nitrosodimethylamine		U	ug/kg	350

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
SVOC	CAN113-B330-1050	0436190012SA	50-52	N-Nitrosodiphenylamine		U	ug/kg	350
				N-Nitrosomethylethylamine		U	ug/kg	350
				N-Nitrosomorpholine		U	ug/kg	350
				N-Nitrosopiperidine		U	ug/kg	350
				N-Nitrosopyrrolidine		U	ug/kg	350
				Naphthalene		U	ug/kg	350
				Nitrobenzene		U	ug/kg	350
				p-Dimethylaminoazobenzene		U	ug/kg	350
				Pentachlorobenzene		U	ug/kg	350
				Pentachloroethane		U	ug/kg	350
				Pentachloronitrobenzene		U	ug/kg	1700
				Pentachlorophenol		U	ug/kg	1700
				Phenacetin		U	ug/kg	350
				Phenanthrene		U	ug/kg	350
				Phenol		U	ug/kg	350
				Pronamide		U	ug/kg	350
				Pyrene		U	ug/kg	350
				Pyridine		U	ug/kg	700
				Safrole		U	ug/kg	350
VOC	CAN113-B301-0581	0437820014SA	-	1,1,1,2-Tetrachloroethane		U	ug/L	5
				1,1,1-Trichloroethane		U	ug/L	5
				1,1,2,2-Tetrachloroethane		U	ug/L	5
				1,1,2-Trichloroethane		U	ug/L	5
				1,1-Dichloroethane		U	ug/L	
				1,1-Dichloroethene		U	ug/L	
				1,2,3-Trichloropropane		U	ug/L	5
				1,2-Dibromo-3-chloro-propane (DB		U	ug/L	10
				1,2-Dibromoethane (EDB)		U	ug/L	10
				1,2-Dichloroethane		U	ug/L	5
				1,2-Dichloroethene (total)		U	ug/L	5
				1,2-Dichloropropane		U	ug/L	5
				1,4-Dioxane		U	ug/L	500
				2-Butanone (MEK)		U	ug/L	10
				2-Hexanone		U	ug/L	10
				4-Methyl-2-pentanone (MIBK)		U	ug/L	10
				Acetone		U	ug/L	10
				Acetonitrile		U	ug/L	200
				Acrolein		U	ug/L	100
				Acrylonitrile		U	ug/L	100
				Allyl chloride		U	ug/L	10
				Benzene		U	ug/L	5
				Bromodichloromethane		U	ug/L	5
				Bromoform		U	ug/L	5
				Bromomethane		U	ug/L	10
				Carbon disulfide		U	ug/L	5
				Carbon tetrachloride		U	ug/L	5
				Chlorobenzene		U	ug/L	5
				Chloroethane		U	ug/L	10
				Chloroform		U	ug/L	5
				Chloromethane		U	ug/L	10
				Chloroprene		U	ug/L	5
				cis-1,3-Dichloropropene		U	ug/L	
				Dibromochloromethane		U	ug/L	
				Dibromomethane		U	ug/L	5
				Dichlorodifluoromethane		U	ug/L	20

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B301-0581	0437820014SA	-	Ethyl methacrylate		U	ug/L	20
				Ethylbenzene		U	ug/L	5
				Iodomethane		U	ug/L	5
				Isobutanol		U	ug/L	200
				Methacrylonitrile		U	ug/L	5
				Methyl methacrylate		U	ug/L	20
				Methylene chloride		U	ug/L	5
				Propionitrile		U	ug/L	5
				Styrene		U	ug/L	5
				Tetrachloroethene		U	ug/L	5
				Toluene		U	ug/L	5
				trans-1,3-Dichloropropene		U	ug/L	5
				trans-1,4-Dichloro-2-butene		U	ug/L	5
				Trichloroethene		U	ug/L	5
				Trichlorofluoromethane		U	ug/L	5
				Vinyl acetate		U	ug/L	10
				Vinyl chloride		U	ug/L	10
				Xylenes (total)		U	ug/L	5
	CAN113-B301-1000	0437820001SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.1
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.1
				1,1,2-Trichloroethane		U	ug/kg	5.1
				1,1-Dichloroethane		U	ug/kg	5.1
				1,1-Dichloroethene		U	ug/kg	5.1
				1,2-Dichloroethane		U	ug/kg	5.1
				1,2-Dichloroethene (total)		U	ug/kg	5.1
				1,2-Dichloropropane		U	ug/kg	5.1
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	22		ug/kg	10
				Benzene		U	ug/kg	5.1
				Bromodichloromethane		U	ug/kg	5.1
				Bromoform		U	ug/kg	5.1
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.1
				Carbon tetrachloride		U	ug/kg	5.1
				Chlorobenzene		U	ug/kg	5.1
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.1
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.1
				Dibromochloromethane		U	ug/kg	5.1
				Ethylbenzene		U	ug/kg	5.1
				Methylene chloride		U	ug/kg	5.1
				Styrene		U	ug/kg	5.1
				Tetrachloroethene		U	ug/kg	5.1
				Toluene	2.5	J	ug/kg	5.1
				trans-1,3-Dichloropropene		U	ug/kg	5.1
				Trichloroethene		U	ug/kg	5.1
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.1
	CAN113-B301-1001	0437820012SA		1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B301-1001	0437820012SA	0-.5	1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B301-1028	0437820002SA	28-30	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.9	J	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B301-1028	0437820002SA	28-30	Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B301-1034	0437820003SA	34-36	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B301-1045	0437820004SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B301-1045	0437820004SA	45-47	Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B301-1055	0437820005SA	55-56.9	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	
				1,2-Dichloroethane		U	ug/kg	[illegible]
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	
	CAN113-B301-1063	0437820006SA	63-64.8	1,1,1,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,1-Trichloroethane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B301-1063	0437820006SA	63-64.8	1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2,3-Trichloropropane		U	ug/kg	5.4
				1,2-Dibromo-3-chloro-propane (DB		R	ug/kg	
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				1,4-Dioxane		UJ	ug/kg	1065
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	14		ug/kg	11
				Acetonitrile		UJ	ug/kg	220
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		UJ	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.4
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Dibromomethane		U	ug/kg	5.4
				Dichlorodifluoromethane		U	ug/kg	22
				Ethyl methacrylate		U	ug/kg	22
				Ethylbenzene		U	ug/kg	5.4
				Iodomethane		U	ug/kg	5.4
				Isobutanol		UJ	ug/kg	220
				Methacrylonitrile		UJ	ug/kg	5.4
				Methyl methacrylate		UJ	ug/kg	22
				Methylene chloride		U	ug/kg	5.4
				Propionitrile		UJ	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Trichlorofluoromethane		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B302-1014	0437820007SA	14-16	1,1,1-Trichloroethane		U	ug/kg	5.7
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.7
				1,1,2-Trichloroethane		U	ug/kg	5.7
				1,1-Dichloroethane		U	ug/kg	5.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B302-1014	0437820007SA	14-16	1,1-Dichloroethene		U	ug/kg	5.7
				1,2-Dichloroethane		U	ug/kg	5.7
				1,2-Dichloroethene (total)		U	ug/kg	5.7
				1,2-Dichloropropane		U	ug/kg	5.7
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.7
				Bromodichloromethane		U	ug/kg	5.7
				Bromoform		U	ug/kg	5.7
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.7
				Carbon tetrachloride		U	ug/kg	5.7
				Chlorobenzene		U	ug/kg	5.7
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.7
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.7
				Dibromochloromethane		U	ug/kg	5.7
				Ethylbenzene		U	ug/kg	5.7
				Methylene chloride		U	ug/kg	5.7
				Styrene		U	ug/kg	5.7
				Tetrachloroethene		U	ug/kg	5.7
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	[illegible]
				Trichloroethene		U	ug/kg	5.7
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.7
	CAN113-B302-1020	0437820008SA	20-22	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.1	J	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B302-1020	0437820008SA	20-22	Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B302-1030	0437820009SA	30-31.5	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B302-1040	0437820010SA	40-41.8	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B302-1040	0437820010SA	40-41.8	Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B302-1050	0437820011SA	49-51	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	
				1,1-Dichloroethene		U	ug/kg	
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		R	ug/kg	
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		UJ	ug/kg	1025
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Acetonitrile		UJ	ug/kg	210
				Acrolein		U	ug/kg	100
				Acrylonitrile		UJ	ug/kg	100
				Allyl chloride		UJ	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B302-1050	0437820011SA	49-51	Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2
				Iodomethane		U	ug/kg	5.2
				Isobutanol		UJ	ug/kg	210
				Methacrylonitrile		UJ	ug/kg	5.2
				Methyl methacrylate		UJ	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		UJ	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B303-1023	0437630001SA	23-25	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	9.3
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B303-1028	0437630002SA	28-30	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B303-1028	0437630002SA	28-30	1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B303-1040	0437630003SA	40-42	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.7	J	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B303-1040	0437630003SA	40-42	Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B303-1050	0437630004SA	50-51.4	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B303-1058	0437630005SA	58-59.9	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		U	ug/kg	520
				2-Butanone (MEK)		U	ug/kg	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B303-1058	0437630005SA	58-59.9	2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	100
				Acrylonitrile		U	ug/kg	100
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2
				Iodomethane		U	ug/kg	
				Isobutanol		U	ug/kg	[illegible]
				Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B304-1000	0435620006SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	3.7	J	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B304-1000	0435620006SA	0-.5	Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene	1.3	J	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B304-1020	0435620007SA	20-22	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	6.3	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B304-1025	0435620008SA	25-27	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B304-1025	0435620008SA	25-27	1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	6.2	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride	1.2	J	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	[illegible]
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B304-1035	0435620009SA	35-36.3	1,1,1-Trichloroethane		U	ug/kg	5.7
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.7
				1,1,2-Trichloroethane		U	ug/kg	5.7
				1,1-Dichloroethane		U	ug/kg	5.7
				1,1-Dichloroethene		U	ug/kg	5.7
				1,2-Dichloroethane		U	ug/kg	5.7
				1,2-Dichloroethene (total)		U	ug/kg	5.7
				1,2-Dichloropropane		U	ug/kg	5.7
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.7
				Bromodichloromethane		U	ug/kg	5.7
				Bromoform		U	ug/kg	5.7
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.7
				Carbon tetrachloride		U	ug/kg	5.7
				Chlorobenzene		U	ug/kg	5.7
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.7
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	
				Ethylbenzene		U	ug/kg	5.7
				Methylene chloride	3.3	J	ug/kg	5.7

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B304-1035	0435620009SA	35-36.3	Styrene		U	ug/kg	5.7
				Tetrachloroethene		U	ug/kg	5.7
				Toluene		U	ug/kg	5.7
				trans-1,3-Dichloropropene		U	ug/kg	5.7
				Trichloroethene		U	ug/kg	5.7
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.7
	CAN113-B304-1045	0435620010SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.6	J	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride	1.1	J	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B304-1055	0435620011SA	55-57	1,1,1,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2,3-Trichloropropane		U	ug/kg	5.4
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				1,4-Dioxane		U	ug/kg	540
				2-Butanone (MEK)		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B304-1055	0435620011SA	55-57	2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	8.3	J	ug/kg	11
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.4
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Dibromomethane		U	ug/kg	5.4
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.4
				Iodomethane		U	ug/kg	
				Isobutanol		U	ug/kg	[illegible]
				Methacrylonitrile		U	ug/kg	5.4
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.4
				Propionitrile		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Trichlorofluoromethane		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B305-1024	0435620001SA	24.5-26.5	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	12		ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B305-1024	0435620001SA	24.5-26.5	Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B305-1029	0435620002SA	29.5-31.5	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)	21		ug/kg	11
				2-Hexanone	1.9	J	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	98		ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B305-1039	0435620003SA	39.5-40.3	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B305-1039	0435620003SA	39.5-40.3	1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	34		ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B305-1049	0435620004SA	49.5-51	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	8.1	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B305-1049	0435620004SA	49.5-51	Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B305-1059	0435620005SA	59.5-60.8	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		U	ug/kg	520
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	18		ug/kg	10
				Acetonitrile	16	J	ug/kg	210
				Acrolein		U	ug/kg	100
				Acrylonitrile		U	ug/kg	100
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2
				Iodomethane		U	ug/kg	5.2
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B305-1059	0435620005SA	59.5-60.8	trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B306-1020	0437630012SA	20-21.9	1,1,1-Trichloroethane		U	ug/kg	5.7
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.7
				1,1,2-Trichloroethane		U	ug/kg	5.7
				1,1-Dichloroethane		U	ug/kg	5.7
				1,1-Dichloroethene		U	ug/kg	5.7
				1,2-Dichloroethane		U	ug/kg	5.7
				1,2-Dichloroethene (total)		U	ug/kg	5.7
				1,2-Dichloropropane		U	ug/kg	5.7
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.7
				Bromodichloromethane		U	ug/kg	5.7
				Bromoform		U	ug/kg	5.7
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.7
				Carbon tetrachloride		U	ug/kg	5.7
				Chlorobenzene		U	ug/kg	
				Chloroethane		U	ug/kg	
				Chloroform		U	ug/kg	5.7
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.7
				Dibromochloromethane		U	ug/kg	5.7
				Ethylbenzene		U	ug/kg	5.7
				Methylene chloride		U	ug/kg	5.7
				Styrene		U	ug/kg	5.7
				Tetrachloroethene		U	ug/kg	5.7
				Toluene		U	ug/kg	5.7
				trans-1,3-Dichloropropene		U	ug/kg	5.7
				Trichloroethene		U	ug/kg	5.7
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.7
	CAN113-B306-1025	0437630013SA	25-27	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.1	J	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B306-1025	0437630013SA	25-27	Carbon disulfide	2.9	J	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B306-1035	0437630014SA	35-37	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride	2.1	J	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B306-1045	0437630015SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B306-1045	0437630015SA	45-47	1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B306-1055	0437630016SA	55-57.5	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		R	ug/kg	
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		UJ	ug/kg	840
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	7.9	J	ug/kg	11
				Acetonitrile		UJ	ug/kg	430
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		UJ	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B306-1055	0437630016SA	55-57.5	Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		UJ	ug/kg	725
				Methacrylonitrile		UJ	ug/kg	5.3
				Methyl methacrylate		UJ	ug/kg	21
				Methylene chloride		U	ug/kg	5.3
				Propionitrile		UJ	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B307-1000	0436080001SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.1
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.1
				1,1,2-Trichloroethane		U	ug/kg	5.1
				1,1-Dichloroethane		U	ug/kg	5.1
				1,1-Dichloroethene		U	ug/kg	5.1
				1,2-Dichloroethane		U	ug/kg	5.1
				1,2-Dichloroethene (total)		U	ug/kg	5.1
				1,2-Dichloropropane		U	ug/kg	5.1
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.1
				Bromodichloromethane		U	ug/kg	5.1
				Bromoform		U	ug/kg	5.1
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.1
				Carbon tetrachloride		U	ug/kg	5.1
				Chlorobenzene		U	ug/kg	5.1
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.1
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.1
				Dibromochloromethane		U	ug/kg	5.1
				Ethylbenzene		U	ug/kg	5.1
				Methylene chloride		U	ug/kg	5.1
				Styrene		U	ug/kg	5.1
				Tetrachloroethene		U	ug/kg	5.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B307-1000	0436080001SA	0-.5	Toluene	3.8	J	ug/kg	5.1
				trans-1,3-Dichloropropene		U	ug/kg	5.1
				Trichloroethene		U	ug/kg	5.1
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.1
	CAN113-B307-1024	0436080002SA	24-26	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.3	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B307-1029	0436080003SA	29-30.8	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	6.3	J	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B307-1029	0436080003SA	29-30.8	Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B307-1039	0436080004SA	39-41	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B307-1049	0436080005SA	49-51	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B307-1049	0436080005SA	49-51	1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	3.9	J	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B307-1059	0436080006SA	59-60.9	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		U	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Acetonitrile	33	J	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B307-1059	0436080006SA	59-60.9	Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride	2.2	J	ug/kg	5.3
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B308-1020	0436080008SA	20-22	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	8.5	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B308-1020	0436080008SA	20-22	Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B308-1025	0436080009SA	25-27	1,1,1-Trichloroethane		U	ug/kg	5.9
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.9
				1,1,2-Trichloroethane		U	ug/kg	5.9
				1,1-Dichloroethane		U	ug/kg	5.9
				1,1-Dichloroethene		U	ug/kg	5.9
				1,2-Dichloroethane		U	ug/kg	5.9
				1,2-Dichloroethene (total)		U	ug/kg	5.9
				1,2-Dichloropropane		U	ug/kg	5.9
				2-Butanone (MEK)		U	ug/kg	12
				2-Hexanone		U	ug/kg	12
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	12
				Acetone	8.2	J	ug/kg	12
				Benzene		U	ug/kg	5.9
				Bromodichloromethane		U	ug/kg	5.9
				Bromoform		U	ug/kg	5.9
				Bromomethane		U	ug/kg	12
				Carbon disulfide		U	ug/kg	5.9
				Carbon tetrachloride		U	ug/kg	5.9
				Chlorobenzene		U	ug/kg	
				Chloroethane		U	ug/kg	[illegible]
				Chloroform		U	ug/kg	5.9
				Chloromethane		U	ug/kg	12
				cis-1,3-Dichloropropene		U	ug/kg	5.9
				Dibromochloromethane		U	ug/kg	5.9
				Ethylbenzene		U	ug/kg	5.9
				Methylene chloride		U	ug/kg	5.9
				Styrene		U	ug/kg	5.9
				Tetrachloroethene		U	ug/kg	5.9
				Toluene		U	ug/kg	5.9
				trans-1,3-Dichloropropene		U	ug/kg	5.9
				Trichloroethene		U	ug/kg	5.9
				Vinyl acetate		U	ug/kg	12
				Vinyl chloride		U	ug/kg	12
				Xylenes (total)		U	ug/kg	5.9
	CAN113-B308-1035	0436080011SA	35-35.9	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B308-1035	0436080011SA	35-35.9	Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B308-1045	0436080012SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B308-1055	0436080013SA	55-57	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B308-1055	0436080013SA	55-57	1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		U	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	7.4	J	ug/kg	11
				Acetonitrile	67	J	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	
				Chloroform		U	ug/kg	[illegible]
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.3
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B309-1018	0437350006SA	18-20	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B309-1018	0437350006SA	18-20	1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B309-1025	0437350007SA	25-26.5	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B309-1025	0437350007SA	25-26.5	Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B309-1035	0437350008SA	35-36.9	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)	3.6	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	
				Chloroethane		U	ug/kg	
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B309-1045	0437350010SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B309-1045	0437350010SA	45-47	Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B309-1053	0437350011SA	53-54.3	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		UJ	ug/kg	710
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B309-1053	0437350011SA	53-54.3	Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.3
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B310-1000	0435300001SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)	1.4	J	ug/kg	
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	3.7	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene	4.9	J	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B310-1029	0435300003SA	29.5-31	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B310-1029	0435300003SA	29.5-31	1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B310-1034	0435300004SA	34-35.3	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone	1.6	J	ug/kg	11
				4-Methyl-2-pentanone (MIBK)	6.4	J	ug/kg	11
				Acetone	37		ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B310-1034	0435300004SA	34-35.3	Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B310-1044	0435300005SA	44-46	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	7.8	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B310-1054	0435300006SA	54-55	1,1,1-Trichloroethane		U	ug/kg	5.1
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.1
				1,1,2-Trichloroethane		U	ug/kg	5.1
				1,1-Dichloroethane		U	ug/kg	5.1
				1,1-Dichloroethene		U	ug/kg	5.1
				1,2-Dichloroethane		U	ug/kg	5.1
				1,2-Dichloroethene (total)		U	ug/kg	5.1
				1,2-Dichloropropane		U	ug/kg	5.1
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	9.2	J	ug/kg	10
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.1
				Bromomethane		U	ug/kg	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B310-1054	0435300006SA	54-55	Carbon disulfide		U	ug/kg	5.1
				Carbon tetrachloride		U	ug/kg	5.1
				Chlorobenzene		U	ug/kg	5.1
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.1
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.1
				Dibromochloromethane		U	ug/kg	5.1
				Ethylbenzene		U	ug/kg	5.1
				Methylene chloride		U	ug/kg	5.1
				Styrene		U	ug/kg	5.1
				Tetrachloroethene		U	ug/kg	5.1
				Toluene	1	J	ug/kg	5.1
				trans-1,3-Dichloropropene		U	ug/kg	5.1
				Trichloroethene		U	ug/kg	5.1
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.1
	CAN113-B310-1064	0435300007SA	66-65	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		U	ug/kg	520
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	41		ug/kg	10
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	100
				Acrylonitrile		U	ug/kg	100
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B310-1064	0435300007SA	66-65	Iodomethane		U	ug/kg	5.2
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride	1.3	J	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B311-1031	0435300008SA	31-33	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	
				2-Hexanone		U	ug/kg	
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	12		ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B311-1035	0435300009SA	35-35.8	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B311-1035	0435300009SA	35-35.8	1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)	7.9	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	24		ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B311-1045	0435300010SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B311-1045	0435300010SA	45-47	Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B311-1055	0435300011SA	55-57	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	3	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	
				Chloroethane		U	ug/kg	
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B311-1065	0435620012SA	65-66.4	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		U	ug/kg	
				2-Butanone (MEK)		U	ug/kg	
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B311-1065	0435620012SA	65-66.4	Acetone	11		ug/kg	11
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride	1.2	J	ug/kg	5.3
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B312-1027	0437200001SA	27.5-29.5	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B312-1027	0437200001SA	27.5-29.5	Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B312-1034	0437200002SA	34-36	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	
				2-Hexanone		U	ug/kg	
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B312-1045	0437200003SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B312-1045	0437200003SA	45-47	1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	7	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B312-1055	0437200004SA	55-57	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B312-1055	0437200004SA	55-57	Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B312-1065	0437200005SA	65-65.6	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		U	ug/kg	520
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	8.1	J	ug/kg	10
				Acetonitrile	24	J	ug/kg	210
				Acrolein		U	ug/kg	
				Acrylonitrile		U	ug/kg	
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2
				Iodomethane		U	ug/kg	5.2
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B312-1065	0437200005SA	65-65.6	Trichlorofluoromethane		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B313-1000	0437630006SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.1
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.1
				1,1,2-Trichloroethane		U	ug/kg	5.1
				1,1-Dichloroethane		U	ug/kg	5.1
				1,1-Dichloroethene		U	ug/kg	5.1
				1,2-Dichloroethane		U	ug/kg	5.1
				1,2-Dichloroethene (total)		U	ug/kg	5.1
				1,2-Dichloropropane		U	ug/kg	5.1
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.1
				Bromodichloromethane		U	ug/kg	5.1
				Bromoform		U	ug/kg	5.1
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.1
				Carbon tetrachloride		U	ug/kg	5.1
				Chlorobenzene		U	ug/kg	5.1
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.1
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.1
				Dibromochloromethane		U	ug/kg	5.1
				Ethylbenzene	1.3	J	ug/kg	5.1
				Methylene chloride		U	ug/kg	5.1
				Styrene	8.2		ug/kg	5.1
				Tetrachloroethene		U	ug/kg	5.1
				Toluene	1.9	J	ug/kg	5.1
				trans-1,3-Dichloropropene		U	ug/kg	5.1
				Trichloroethene		U	ug/kg	5.1
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.1
	CAN113-B313-1027	0437630007SA	27-29	1,1,1-Trichloroethane		U	ug/kg	55
				1,1,2,2-Tetrachloroethane		U	ug/kg	55
				1,1,2-Trichloroethane		U	ug/kg	55
				1,1-Dichloroethane		U	ug/kg	55
				1,1-Dichloroethene		U	ug/kg	55
				1,2-Dichloroethane		U	ug/kg	55
				1,2-Dichloroethene (total)		U	ug/kg	55
				1,2-Dichloropropane		U	ug/kg	55
				2-Butanone (MEK)		U	ug/kg	110
				2-Hexanone		U	ug/kg	110
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	110
				Acetone	130		ug/kg	110
				Benzene		U	ug/kg	55
				Bromodichloromethane		U	ug/kg	55
				Bromoform		U	ug/kg	55
				Bromomethane		U	ug/kg	110
				Carbon disulfide		U	ug/kg	55
				Carbon tetrachloride		U	ug/kg	55

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B313-1027	0437630007SA	27-29	Chlorobenzene		U	ug/kg	55
				Chloroethane		U	ug/kg	110
				Chloroform		U	ug/kg	55
				Chloromethane		U	ug/kg	110
				cis-1,3-Dichloropropene		U	ug/kg	55
				Dibromochloromethane		U	ug/kg	55
				Ethylbenzene	300		ug/kg	55
				Methylene chloride		U	ug/kg	55
				Styrene	1400		ug/kg	55
				Tetrachloroethene		U	ug/kg	55
				Toluene		U	ug/kg	55
				trans-1,3-Dichloropropene		U	ug/kg	55
				Trichloroethene		U	ug/kg	55
				Vinyl acetate		U	ug/kg	110
				Vinyl chloride		U	ug/kg	110
				Xylenes (total)		U	ug/kg	55
	CAN113-B313-1032	0437630008SA	32-34	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	
				2-Hexanone		U	ug/kg	[illegible]
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	7.2	J	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B313-1040	0437630009SA	40-42	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B313-1040	0437630009SA	40-42	1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.9	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride	1.2	J	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B313-1050	0437630010SA	50-51.5	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride	1.8	J	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B313-1050	0437630010SA	50-51.5	Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B313-1062	0437630011SA	62-64.5	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		R	ug/kg	
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		UJ	ug/kg	840
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Acetonitrile		UJ	ug/kg	430
				Acrolein		U	ug/kg	
				Acrylonitrile		U	ug/kg	[illegible]
				Allyl chloride		UJ	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		UJ	ug/kg	725
				Methacrylonitrile		UJ	ug/kg	5.3
				Methyl methacrylate		UJ	ug/kg	21
				Methylene chloride	1.1	J	ug/kg	5.3
				Propionitrile		UJ	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	
				trans-1,3-Dichloropropene		U	ug/kg	
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B313-1062	0437630011SA	62-64.5	Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B314-1032	0437200006SA	32-33.9	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B314-1038	0437200007SA	38-39.1	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)	1.8	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.8	J	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B314-1038	0437200007SA	38-39.1	Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B314-1045	0437200008SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)	2.6	J	ug/kg	
				2-Hexanone		U	ug/kg	[illegible]
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.2	J	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B314-1057	0437200009SA	57-60.5	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B314-1057	0437200009SA	57-60.5	1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)	4.4	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B314-1067	0437200010SA	67-68.5	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		U	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B314-1067	0437200010SA	67-68.5	Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.3
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B315-1020	0437350001SA	20-22	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	
				Tetrachloroethene		U	ug/kg	
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B315-1020	0437350001SA	20-22	Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B315-1025	0437350002SA	25-27	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B315-1035	0437350003SA	35-35.8	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B315-1035	0437350003SA	35-35.8	Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride	3.3	J	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B315-1045	0437350004SA	45-46.8	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	
				2-Hexanone		U	ug/kg	[illegible]
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B315-1055	0437350005SA	55-55.8	1,1,1,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B315-1055	0437350005SA	55-55.8	1,2,3-Trichloropropane		U	ug/kg	5.4
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				1,4-Dioxane		U	ug/kg	540
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.4
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Dibromomethane		U	ug/kg	5.4
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.4
				Iodomethane		U	ug/kg	5.4
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.4
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.4
				Propionitrile		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Trichlorofluoromethane		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B316-1000	0436970006SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.1
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.1
				1,1,2-Trichloroethane		U	ug/kg	5.1
				1,1-Dichloroethane		U	ug/kg	5.1
				1,1-Dichloroethene		U	ug/kg	5.1
				1,2-Dichloroethane		U	ug/kg	5.1
				1,2-Dichloroethene (total)		U	ug/kg	5.1
				1,2-Dichloropropane		U	ug/kg	5.1

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B316-1000	0436970006SA	0-.5	2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.1
				Bromodichloromethane		U	ug/kg	5.1
				Bromoform		U	ug/kg	5.1
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.1
				Carbon tetrachloride		U	ug/kg	5.1
				Chlorobenzene		U	ug/kg	5.1
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.1
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.1
				Dibromochloromethane		U	ug/kg	5.1
				Ethylbenzene		U	ug/kg	5.1
				Methylene chloride		U	ug/kg	5.1
				Styrene		U	ug/kg	5.1
				Tetrachloroethene		U	ug/kg	5.1
				Toluene	1.4	J	ug/kg	5.1
				trans-1,3-Dichloropropene		U	ug/kg	5.1
				Trichloroethene		U	ug/kg	5.1
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	
	CAN113-B316-1045	0436970008SA	45-46.9	1,1,1-Trichloroethane		U	ug/kg	10
				1,1,2,2-Tetrachloroethane		U	ug/kg	10
				1,1,2-Trichloroethane		U	ug/kg	10
				1,1-Dichloroethane		U	ug/kg	10
				1,1-Dichloroethene		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	10
				1,2-Dichloroethene (total)		U	ug/kg	10
				1,2-Dichloropropane		U	ug/kg	10
				2-Butanone (MEK)	180		ug/kg	21
				2-Hexanone	8.3	J	ug/kg	21
				4-Methyl-2-pentanone (MIBK)	230		ug/kg	21
				Acetone	370		ug/kg	21
				Benzene		U	ug/kg	10
				Bromodichloromethane		U	ug/kg	10
				Bromoform		U	ug/kg	10
				Bromomethane		U	ug/kg	21
				Carbon disulfide		U	ug/kg	10
				Carbon tetrachloride		U	ug/kg	10
				Chlorobenzene		U	ug/kg	10
				Chloroethane		U	ug/kg	21
				Chloroform		U	ug/kg	10
				Chloromethane		U	ug/kg	21
				cis-1,3-Dichloropropene		U	ug/kg	10
				Dibromochloromethane		U	ug/kg	10
				Ethylbenzene		U	ug/kg	10
				Methylene chloride	5.1	J	ug/kg	10
				Styrene		U	ug/kg	
				Tetrachloroethene		U	ug/kg	
				Toluene		U	ug/kg	10
				trans-1,3-Dichloropropene		U	ug/kg	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B316-1045	0436970008SA	45-46.9	Trichloroethene		U	ug/kg	10
				Vinyl acetate		U	ug/kg	21
				Vinyl chloride		U	ug/kg	21
				Xylenes (total)		U	ug/kg	10
	CAN113-B316-1050	0436970010SA	50-50.9	1,1,1-Trichloroethane		U	ug/kg	11
				1,1,2,2-Tetrachloroethane		U	ug/kg	11
				1,1,2-Trichloroethane		U	ug/kg	11
				1,1-Dichloroethane		U	ug/kg	11
				1,1-Dichloroethene		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	11
				1,2-Dichloroethene (total)		U	ug/kg	11
				1,2-Dichloropropane		U	ug/kg	11
				2-Butanone (MEK)	180		ug/kg	21
				2-Hexanone	11	J	ug/kg	21
				4-Methyl-2-pentanone (MIBK)	220		ug/kg	21
				Acetone	390		ug/kg	21
				Benzene		U	ug/kg	11
				Bromodichloromethane		U	ug/kg	11
				Bromoform		U	ug/kg	11
				Bromomethane		U	ug/kg	21
				Carbon disulfide		U	ug/kg	11
				Carbon tetrachloride		U	ug/kg	11
				Chlorobenzene		U	ug/kg	11
				Chloroethane		U	ug/kg	21
				Chloroform		U	ug/kg	11
				Chloromethane		U	ug/kg	21
				cis-1,3-Dichloropropene		U	ug/kg	11
				Dibromochloromethane		U	ug/kg	11
				Ethylbenzene		U	ug/kg	11
				Methylene chloride	6.3	J	ug/kg	11
				Styrene		U	ug/kg	11
				Tetrachloroethene		U	ug/kg	11
				Toluene		U	ug/kg	11
				trans-1,3-Dichloropropene		U	ug/kg	11
				Trichloroethene		U	ug/kg	11
				Vinyl acetate		U	ug/kg	21
				Vinyl chloride		U	ug/kg	21
				Xylenes (total)		U	ug/kg	11
	CAN113-B316-1060	0436970011SA	60-60.9	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)	3.3	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)	2.5	J	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B316-1060	0436970011SA	60-60.9	Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B316-1070	0436970012SA	70-70.8	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.9	J	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B316-1080	0436970013SA	80-81.5	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B316-1080	0436970013SA	80-81.5	1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		U	ug/kg	520
				2-Butanone (MEK)	3.2	J	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	6	J	ug/kg	10
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	100
				Acrylonitrile		U	ug/kg	100
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2
				Iodomethane		U	ug/kg	5.2
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B317-1019	0436970014SA	19-20.3	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B317-1019	0436970014SA	19-20.3	2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone	1.5	J	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	8.7	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	[illegible]
	CAN113-B317-1025	0436970015SA	25-26.5	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)	10	J	ug/kg	11
				Acetone	100		ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	
				Tetrachloroethene		U	ug/kg	
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B317-1025	0436970015SA	25-26.5	Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B317-1035	0436970016SA	35-36.3	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B317-1045	0436970017SA	45-46.9	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)	1.9	J	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	8.3	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B317-1045	0436970017SA	45-46.9	Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B317-1053	0436970018SA	53-55	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	
				1,2-Dichloroethane		U	ug/kg	[illegible]
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		U	ug/kg	520
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	7.3	J	ug/kg	10
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	100
				Acrylonitrile		U	ug/kg	100
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	
				Ethylbenzene		U	ug/kg	
				Iodomethane		U	ug/kg	5.2
				Isobutanol		U	ug/kg	210

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B317-1053	0436970018SA	53-55	Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B318-1028	0436970019SA	28-29.9	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene	1.4	J	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B318-1033	0436970020SA	33-35	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B318-1033	0436970020SA	33-35	2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	[illegible]
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B318-1045	0437200016SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	
				Tetrachloroethene		U	ug/kg	[illegible]
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B318-1045	0437200016SA	45-47	Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B318-1055	0437200017SA	55-56.5	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)	3.5	J	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B318-1063	0437200018SA	63-63.8	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		U	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.5	J	ug/kg	11
				Acetonitrile		U	ug/kg	210

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B318-1063	0437200018SA	63-63.8	Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene	1.1	J	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B319-1000	0437200019SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5
				1,1,2-Trichloroethane		U	ug/kg	5
				1,1-Dichloroethane		U	ug/kg	5
				1,1-Dichloroethene		U	ug/kg	5
				1,2-Dichloroethane		U	ug/kg	5
				1,2-Dichloroethene (total)		U	ug/kg	5
				1,2-Dichloropropane		U	ug/kg	5
				2-Butanone (MEK)	2.7	J	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	13		ug/kg	10
				Benzene		U	ug/kg	5
				Bromodichloromethane		U	ug/kg	5
				Bromoform		U	ug/kg	5
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	
				Carbon tetrachloride		U	ug/kg	
				Chlorobenzene		U	ug/kg	5
				Chloroethane		U	ug/kg	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B319-1000	0437200019SA	0-.5	Chloroform		U	ug/kg	5
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5
				Dibromochloromethane		U	ug/kg	5
				Ethylbenzene		U	ug/kg	5
				Methylene chloride		U	ug/kg	5
				Styrene		U	ug/kg	5
				Tetrachloroethene		U	ug/kg	5
				Toluene	4.4	J	ug/kg	5
				trans-1,3-Dichloropropene		U	ug/kg	5
				Trichloroethene		U	ug/kg	5
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5
	CAN113-B319-1018	0437200020SA	18-20	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B319-1025	0437200021SA	25-27	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B319-1025	0437200021SA	25-27	2-Butanone (MEK)	1.9	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B319-1035	0437200022SA	35-35.9	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	6.5	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	
				Tetrachloroethene		U	ug/kg	
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B319-1035	0437200022SA	35-35.9	Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B319-1045	0437200023SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	3.3	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B319-1053	0437200024SA	53-56.5	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		UJ	ug/kg	710
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	3	J	ug/kg	11
				Acetonitrile		U	ug/kg	210

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B319-1053	0437200024SA	53-56.5	Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	
				Propionitrile		U	ug/kg	[illegible]
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B320-1016	0436970001SA	16-17.5	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	
				Carbon tetrachloride		U	ug/kg	
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B320-1016	0436970001SA	16-17.5	Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B320-1020	0436970002SA	20-22	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B320-1030	0436970003SA	30-32	1,1,1-Trichloroethane		U	ug/kg	5.8
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.8
				1,1,2-Trichloroethane		U	ug/kg	5.8
				1,1-Dichloroethane		U	ug/kg	5.8
				1,1-Dichloroethene		U	ug/kg	5.8
				1,2-Dichloroethane		U	ug/kg	5.8
				1,2-Dichloroethene (total)		U	ug/kg	5.8
				1,2-Dichloropropane		U	ug/kg	5.8

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B320-1030	0436970003SA	30-32	2-Butanone (MEK)		U	ug/kg	12
				2-Hexanone		U	ug/kg	12
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	12
				Acetone		UJ	ug/kg	12
				Benzene		U	ug/kg	5.8
				Bromodichloromethane		U	ug/kg	5.8
				Bromoform		U	ug/kg	5.8
				Bromomethane		U	ug/kg	12
				Carbon disulfide		U	ug/kg	5.8
				Carbon tetrachloride		U	ug/kg	5.8
				Chlorobenzene		U	ug/kg	5.8
				Chloroethane		U	ug/kg	12
				Chloroform		U	ug/kg	5.8
				Chloromethane		U	ug/kg	12
				cis-1,3-Dichloropropene		U	ug/kg	5.8
				Dibromochloromethane		U	ug/kg	5.8
				Ethylbenzene		U	ug/kg	5.8
				Methylene chloride		U	ug/kg	5.8
				Styrene		U	ug/kg	5.8
				Tetrachloroethene		U	ug/kg	5.8
				Toluene		U	ug/kg	5.8
				trans-1,3-Dichloropropene		U	ug/kg	5.8
				Trichloroethene		U	ug/kg	5.8
				Vinyl acetate		U	ug/kg	12
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	[illegible]
	CAN113-B320-1040	0436970004SA	40-41.8	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	12
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	
				Tetrachloroethene		U	ug/kg	
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B320-1040	0436970004SA	40-41.8	Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B320-1052	0436970005SA	52-53	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		U	ug/kg	520
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	100
				Acrylonitrile		U	ug/kg	100
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2
				Iodomethane		U	ug/kg	5.2
				Isobutanol		UJ	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B320-1052	0436970005SA	52-53	Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B321-1022	0437350012SA	22-22.9	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane	2.3	J	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.6	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	[illegible]
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B321-1027	0437350013SA	27-29	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane	8.2		ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	
				Carbon tetrachloride		U	ug/kg	
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B321-1027	0437350013SA	27-29	Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B321-1035	0437350014SA	35-35.8	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	16		ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B321-1045	0437350015SA	45-46.8	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane	3.5	J	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B321-1045	0437350015SA	45-46.8	2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	7	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B321-1057	0437350016SA	57-58.8	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane	3.1	J	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		R	ug/kg	
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		UJ	ug/kg	1040
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Acetonitrile		UJ	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		UJ	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	
				Chlorobenzene		U	ug/kg	
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B321-1057	0437350016SA	57-58.8	Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		UJ	ug/kg	210
				Methacrylonitrile		UJ	ug/kg	5.3
				Methyl methacrylate		UJ	ug/kg	21
				Methylene chloride	2.8	J	ug/kg	5.3
				Propionitrile		UJ	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B322-1000	0436170012SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.1
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.1
				1,1,2-Trichloroethane		U	ug/kg	5.1
				1,1-Dichloroethane		U	ug/kg	5.1
				1,1-Dichloroethene		U	ug/kg	5.1
				1,2-Dichloroethane		U	ug/kg	5.1
				1,2-Dichloroethene (total)		U	ug/kg	5.1
				1,2-Dichloropropane		U	ug/kg	5.1
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.1
				Bromodichloromethane		U	ug/kg	5.1
				Bromoform		U	ug/kg	5.1
				Bromomethane		UJ	ug/kg	10
				Carbon disulfide		U	ug/kg	5.1
				Carbon tetrachloride		U	ug/kg	5.1
				Chlorobenzene		U	ug/kg	5.1
				Chloroethane		UJ	ug/kg	10
				Chloroform		U	ug/kg	5.1
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.1
				Dibromochloromethane		U	ug/kg	5.1
				Ethylbenzene		U	ug/kg	5.1
				Methylene chloride		U	ug/kg	5.1
				Styrene		U	ug/kg	5.1
				Tetrachloroethene		U	ug/kg	5.1
				Toluene		U	ug/kg	5.1
				trans-1,3-Dichloropropene		U	ug/kg	5.1
				Trichloroethene		U	ug/kg	5.1
				Vinyl acetate		U	ug/kg	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B322-1000	0436170012SA	0-.5	Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.1
	CAN113-B322-1018	0436170001SA	18-20	1,1,1-Trichloroethane		U	ug/kg	5.1
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.1
				1,1,2-Trichloroethane		U	ug/kg	5.1
				1,1-Dichloroethane		U	ug/kg	5.1
				1,1-Dichloroethene		U	ug/kg	5.1
				1,2-Dichloroethane		UJ	ug/kg	5.1
				1,2-Dichloroethene (total)		U	ug/kg	5.1
				1,2-Dichloropropane		U	ug/kg	5.1
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	7	J	ug/kg	10
				Benzene		U	ug/kg	5.1
				Bromodichloromethane		U	ug/kg	5.1
				Bromoform		U	ug/kg	5.1
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.1
				Carbon tetrachloride		U	ug/kg	5.1
				Chlorobenzene		U	ug/kg	5.1
				Chloroethane		UJ	ug/kg	10
				Chloroform		U	ug/kg	5.1
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	[illegible]
				Ethylbenzene		U	ug/kg	5.1
				Methylene chloride		U	ug/kg	5.1
				Styrene		U	ug/kg	5.1
				Tetrachloroethene		U	ug/kg	5.1
				Toluene		U	ug/kg	5.1
				trans-1,3-Dichloropropene		U	ug/kg	5.1
				Trichloroethene		U	ug/kg	5.1
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.1
	CAN113-B322-1025	0436170002SA	25-25.5	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		UJ	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)	6.6	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	31	J	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	
				Carbon tetrachloride		U	ug/kg	
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		UJ	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B322-1025	0436170002SA	25-25.5	Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B322-1035	0436170003SA	35-36.2	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		UJ	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.7	J	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		UJ	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B322-1045	0436170004SA	45-45.9	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B322-1045	0436170004SA	45-45.9	2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	7.1	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		UJ	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		UJ	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene	4.8	J	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	
				Xylenes (total)		U	ug/kg	[illegible]
	CAN113-B322-1056	0436170005SA	56.5-58.5	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		UJ	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		U	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Acetonitrile		UJ	ug/kg	310
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	
				Chlorobenzene		U	ug/kg	
				Chloroethane		UJ	ug/kg	11
				Chloroform		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B322-1056	0436170005SA	56.5-58.5	Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		UJ	ug/kg	560
				Methacrylonitrile		UJ	ug/kg	5.3
				Methyl methacrylate		UJ	ug/kg	21
				Methylene chloride		U	ug/kg	5.3
				Propionitrile		UJ	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B323-1019	0436170013SA	19-20.5	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	6.7	J	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		UJ	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B323-1019	0436170013SA	19-20.5	Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B323-1024	0436170014SA	24-26	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		UJ	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		UJ	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride	1.2	J	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B323-1035	0436170015SA	35-36.3	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		UJ	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)	3.4	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	24		ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	
				Carbon tetrachloride		UJ	ug/kg	
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B323-1035	0436170015SA	35-36.3	Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B323-1045	0436170016SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		UJ	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		UJ	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		UJ	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B323-1054	0436170017SA	54-55.1	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B323-1054	0436170017SA	54-55.1	1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		UJ	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		UJ	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		UJ	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride	1.1	J	ug/kg	5.3
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		UJ	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B324-1024	0437200011SA	24-26	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	
				1,2-Dichloropropane		U	ug/kg	
				2-Butanone (MEK)	2.5	J	ug/kg	11
				2-Hexanone		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B324-1024	0437200011SA	24-26	4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.4	J	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B324-1029	0437200012SA	29-29.8	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)	22		ug/kg	11
				2-Hexanone	3.4	J	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	57		ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B324-1029	0437200012SA	29-29.8	Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B324-1040	0437200013SA	40-42	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	[illegible]
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene	1.8	J	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B324-1050	0437200014SA	50-50.8	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)	4.7	J	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	9.3	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	
				Carbon tetrachloride		U	ug/kg	
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B324-1050	0437200014SA	50-50.8	Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B324-1059	0437200015SA	59-60	1,1,1,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2,3-Trichloropropane		U	ug/kg	5.4
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				1,4-Dioxane		U	ug/kg	540
				2-Butanone (MEK)	5.6	J	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	9.9	J	ug/kg	11
				Acetonitrile		U	ug/kg	220
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.4
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Dibromomethane		U	ug/kg	5.4
				Dichlorodifluoromethane		U	ug/kg	22
				Ethyl methacrylate		U	ug/kg	22
				Ethylbenzene		U	ug/kg	5.4
				Iodomethane		U	ug/kg	5.4
				Isobutanol		U	ug/kg	220
				Methacrylonitrile		U	ug/kg	5.4
				Methyl methacrylate		U	ug/kg	22

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B324-1059	0437200015SA	59-60	Methylene chloride		U	ug/kg	5.4
				Propionitrile		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Trichlorofluoromethane		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B325-1000	0436170006SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	[illegible]
				Bromoform		U	ug/kg	5.2
				Bromomethane		UJ	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		UJ	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B325-1024	0436170007SA	24-26	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	
				1,2-Dichloropropane		U	ug/kg	
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B325-1024	0436170007SA	24-26	4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		UJ	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B325-1030	0436170008SA	30-30.9	1,1,1-Trichloroethane		U	ug/kg	6
				1,1,2,2-Tetrachloroethane		U	ug/kg	6
				1,1,2-Trichloroethane		U	ug/kg	6
				1,1-Dichloroethane		U	ug/kg	6
				1,1-Dichloroethene		U	ug/kg	6
				1,2-Dichloroethane		U	ug/kg	6
				1,2-Dichloroethene (total)		U	ug/kg	6
				1,2-Dichloropropane		U	ug/kg	6
				2-Butanone (MEK)		U	ug/kg	12
				2-Hexanone		U	ug/kg	12
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	12
				Acetone		UJ	ug/kg	12
				Benzene		U	ug/kg	6
				Bromodichloromethane		U	ug/kg	6
				Bromoform		U	ug/kg	6
				Bromomethane		UJ	ug/kg	12
				Carbon disulfide		U	ug/kg	6
				Carbon tetrachloride		U	ug/kg	6
				Chlorobenzene		U	ug/kg	6
				Chloroethane		UJ	ug/kg	12
				Chloroform		U	ug/kg	6
				Chloromethane		U	ug/kg	12
				cis-1,3-Dichloropropene		U	ug/kg	6
				Dibromochloromethane		U	ug/kg	6
				Ethylbenzene		U	ug/kg	6
				Methylene chloride		U	ug/kg	6
				Styrene		U	ug/kg	6
				Tetrachloroethene		U	ug/kg	6
				Toluene		U	ug/kg	6
				trans-1,3-Dichloropropene		U	ug/kg	6
				Trichloroethene		U	ug/kg	6
				Vinyl acetate		U	ug/kg	12

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B325-1030	0436170008SA	30-30.9	Vinyl chloride		U	ug/kg	12
				Xylenes (total)		U	ug/kg	6
	CAN113-B325-1040	0436170009SA	40-42	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		UJ	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	[illegible]
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B325-1050	0436170010SA	50-50.5	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.1	J	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	
				Carbon tetrachloride		U	ug/kg	
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		UJ	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B325-1050	0436170010SA	50-50.5	Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B325-1060	0436170011SA	60-62	1,1,1,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2,3-Trichloropropane		U	ug/kg	5.4
				1,2-Dibromo-3-chloro-propane (DB		UJ	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				1,4-Dioxane		U	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.9	J	ug/kg	11
				Acetonitrile		UJ	ug/kg	310
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		UJ	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		UJ	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.4
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Dibromomethane		U	ug/kg	5.4
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.4
				Iodomethane		U	ug/kg	5.4
				Isobutanol		UJ	ug/kg	560
				Methacrylonitrile		UJ	ug/kg	5.4
				Methyl methacrylate		UJ	ug/kg	21

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B325-1060	0436170011SA	60-62	Methylene chloride		U	ug/kg	5.4
				Propionitrile		UJ	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene	1.7	J	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Trichlorofluoromethane		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B326-1021	0436190001SA	21.5-23	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)	17		ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	130	J	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	[illegible]
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride	1.3	J	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B326-1027	0436190003SA	27-29	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	
				1,2-Dichloropropane		U	ug/kg	
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B326-1027	0436190003SA	27-29	4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	11	J	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B326-1037	0436190004SA	37-39	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B326-1037	0436190004SA	37-39	Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B326-1047	0436190005SA	47-47.5	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	26	J	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	
				Dibromochloromethane		U	ug/kg	[illegible]
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B326-1055	0436190006SA	55-56.5	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	5.3
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		U	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	
				Acetonitrile		U	ug/kg	
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B326-1055	0436190006SA	55-56.5	Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.3
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B327-1021	0436190013SA	21-23	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B327-1021	0436190013SA	21-23	cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B327-1024	0436190014SA	24.5-26.5	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B327-1034	0436190015SA	34.5-36.5	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	
				1,2-Dichloropropane		U	ug/kg	
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B327-1034	0436190015SA	34.5-36.5	4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	17		ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B327-1044	0436190016SA	44.5-46	1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2-Dichloroethane		U	ug/kg	5.3
				1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.2	J	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Ethylbenzene		U	ug/kg	5.3
				Methylene chloride		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B327-1044	0436190016SA	44.5-46	Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
	CAN113-B327-1057	0436190017SA	57.5-58.1	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		U	ug/kg	520
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	11		ug/kg	10
				Acetonitrile		UJ	ug/kg	310
				Acrolein		U	ug/kg	100
				Acrylonitrile		U	ug/kg	100
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2
				Iodomethane		U	ug/kg	5.2
				Isobutanol		UJ	ug/kg	560
				Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	
				Vinyl acetate		U	ug/kg	
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B328-1000	0436180006SA	0-.5	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B328-1020	0436180007SA	20-21.5	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B328-1020	0436180007SA	20-21.5	cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B328-1025	0436180008SA	25-27	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	6	J	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B328-1035	0436180009SA	35-37	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	
				1,2-Dichloropropane		U	ug/kg	
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B328-1035	0436180009SA	35-37	4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	3	J	ug/kg	11
				Benzene		U	ug/kg	5.4
				Bromodichloromethane		U	ug/kg	5.4
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B328-1045	0436180010SA	45-47	1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone	1.9	J	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	5.2
				Bromoform		U	ug/kg	5.2
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Ethylbenzene		U	ug/kg	5.2
				Methylene chloride		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Vinyl acetate		U	ug/kg	10

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B328-1045	0436180010SA	45-47	Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2
	CAN113-B328-1055	0436180011SA	55-57	1,1,1,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,1-Trichloroethane		U	ug/kg	5.2
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.2
				1,1,2-Trichloroethane		U	ug/kg	5.2
				1,1-Dichloroethane		U	ug/kg	5.2
				1,1-Dichloroethene		U	ug/kg	5.2
				1,2,3-Trichloropropane		U	ug/kg	5.2
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	10
				1,2-Dibromoethane (EDB)		U	ug/kg	10
				1,2-Dichloroethane		U	ug/kg	5.2
				1,2-Dichloroethene (total)		U	ug/kg	5.2
				1,2-Dichloropropane		U	ug/kg	5.2
				1,4-Dioxane		UJ	ug/kg	720
				2-Butanone (MEK)		U	ug/kg	10
				2-Hexanone		U	ug/kg	10
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	10
				Acetone		U	ug/kg	10
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	100
				Acrylonitrile		U	ug/kg	100
				Allyl chloride		U	ug/kg	10
				Benzene		U	ug/kg	5.2
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	[illegible]
				Bromomethane		U	ug/kg	10
				Carbon disulfide		U	ug/kg	5.2
				Carbon tetrachloride		U	ug/kg	5.2
				Chlorobenzene		U	ug/kg	5.2
				Chloroethane		U	ug/kg	10
				Chloroform		U	ug/kg	5.2
				Chloromethane		U	ug/kg	10
				Chloroprene		U	ug/kg	5.2
				cis-1,3-Dichloropropene		U	ug/kg	5.2
				Dibromochloromethane		U	ug/kg	5.2
				Dibromomethane		U	ug/kg	5.2
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.2
				Iodomethane		U	ug/kg	5.2
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.2
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.2
				Propionitrile		U	ug/kg	5.2
				Styrene		U	ug/kg	5.2
				Tetrachloroethene		U	ug/kg	5.2
				Toluene		U	ug/kg	5.2
				trans-1,3-Dichloropropene		U	ug/kg	5.2
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.2
				Trichloroethene		U	ug/kg	5.2
				Trichlorofluoromethane		U	ug/kg	
				Vinyl acetate		U	ug/kg	
				Vinyl chloride		U	ug/kg	10
				Xylenes (total)		U	ug/kg	5.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B329-1014	0436180001SA	14-16	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	6.3	J	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B329-1020	0436180002SA	20-22	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	5.6
				1,1-Dichloroethane		U	ug/kg	5.6
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		UJ	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B329-1020	0436180002SA	20-22	cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	5.6
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6
	CAN113-B329-1030	0436180003SA	30-32	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B329-1040	0436180004SA	40-42	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	
				1,2-Dichloropropane		U	ug/kg	
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B329-1040	0436180004SA	40-42	4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B329-1050	0436180005SA	50-51.8	1,1,1,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2,3-Trichloropropane		U	ug/kg	5.5
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	11
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				1,4-Dioxane		UJ	ug/kg	770
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	4.3	J	ug/kg	11
				Acetonitrile		U	ug/kg	220
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.5

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B329-1050	0436180005SA	50-51.8	cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Dibromomethane		U	ug/kg	5.5
				Dichlorodifluoromethane		U	ug/kg	22
				Ethyl methacrylate		U	ug/kg	22
				Ethylbenzene		U	ug/kg	5.5
				Iodomethane		U	ug/kg	5.5
				Isobutanol		U	ug/kg	220
				Methacrylonitrile		U	ug/kg	5.5
				Methyl methacrylate		U	ug/kg	22
				Methylene chloride		U	ug/kg	5.5
				Propionitrile		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Trichlorofluoromethane		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B330-1014	0436190007SA	14.5-16.5	1,1,1-Trichloroethane		U	ug/kg	5.6
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.6
				1,1,2-Trichloroethane		U	ug/kg	
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.6
				1,2-Dichloroethane		U	ug/kg	5.6
				1,2-Dichloroethene (total)		U	ug/kg	5.6
				1,2-Dichloropropane		U	ug/kg	5.6
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.6
				Bromodichloromethane		U	ug/kg	5.6
				Bromoform		U	ug/kg	5.6
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.6
				Carbon tetrachloride		U	ug/kg	5.6
				Chlorobenzene		U	ug/kg	5.6
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.6
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.6
				Dibromochloromethane		U	ug/kg	5.6
				Ethylbenzene		U	ug/kg	5.6
				Methylene chloride		U	ug/kg	5.6
				Styrene		U	ug/kg	5.6
				Tetrachloroethene		U	ug/kg	5.6
				Toluene		U	ug/kg	5.6
				trans-1,3-Dichloropropene		U	ug/kg	5.6
				Trichloroethene		U	ug/kg	
				Vinyl acetate		U	ug/kg	
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.6

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B330-1020	0436190008SA	20-21.3	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	55		ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B330-1030	0436190010SA	30-32	1,1,1-Trichloroethane		U	ug/kg	5.5
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.5
				1,1,2-Trichloroethane		U	ug/kg	5.5
				1,1-Dichloroethane		U	ug/kg	5.5
				1,1-Dichloroethene		U	ug/kg	5.5
				1,2-Dichloroethane		U	ug/kg	5.5
				1,2-Dichloroethene (total)		U	ug/kg	5.5
				1,2-Dichloropropane		U	ug/kg	5.5
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone		U	ug/kg	11
				Benzene		U	ug/kg	5.5
				Bromodichloromethane		U	ug/kg	5.5
				Bromoform		U	ug/kg	5.5
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.5
				Carbon tetrachloride		U	ug/kg	5.5
				Chlorobenzene		U	ug/kg	5.5
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.5
				Chloromethane		U	ug/kg	11

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B330-1030	0436190010SA	30-32	cis-1,3-Dichloropropene		U	ug/kg	5.5
				Dibromochloromethane		U	ug/kg	5.5
				Ethylbenzene		U	ug/kg	5.5
				Methylene chloride		U	ug/kg	5.5
				Styrene		U	ug/kg	5.5
				Tetrachloroethene		U	ug/kg	5.5
				Toluene		U	ug/kg	5.5
				trans-1,3-Dichloropropene		U	ug/kg	5.5
				Trichloroethene		U	ug/kg	5.5
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.5
	CAN113-B330-1040	0436190011SA	40-42	1,1,1-Trichloroethane		U	ug/kg	5.4
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.4
				1,1,2-Trichloroethane		U	ug/kg	5.4
				1,1-Dichloroethane		U	ug/kg	5.4
				1,1-Dichloroethene		U	ug/kg	5.4
				1,2-Dichloroethane		U	ug/kg	5.4
				1,2-Dichloroethene (total)		U	ug/kg	5.4
				1,2-Dichloropropane		U	ug/kg	5.4
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	7.2	J	ug/kg	11
				Benzene		U	ug/kg	
				Bromodichloromethane		U	ug/kg	
				Bromoform		U	ug/kg	5.4
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.4
				Carbon tetrachloride		U	ug/kg	5.4
				Chlorobenzene		U	ug/kg	5.4
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.4
				Chloromethane		U	ug/kg	11
				cis-1,3-Dichloropropene		U	ug/kg	5.4
				Dibromochloromethane		U	ug/kg	5.4
				Ethylbenzene		U	ug/kg	5.4
				Methylene chloride		U	ug/kg	5.4
				Styrene		U	ug/kg	5.4
				Tetrachloroethene		U	ug/kg	5.4
				Toluene		U	ug/kg	5.4
				trans-1,3-Dichloropropene		U	ug/kg	5.4
				Trichloroethene		U	ug/kg	5.4
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.4
	CAN113-B330-1050	0436190012SA	50-52	1,1,1,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,1-Trichloroethane		U	ug/kg	5.3
				1,1,2,2-Tetrachloroethane		U	ug/kg	5.3
				1,1,2-Trichloroethane		U	ug/kg	5.3
				1,1-Dichloroethane		U	ug/kg	5.3
				1,1-Dichloroethene		U	ug/kg	5.3
				1,2,3-Trichloropropane		U	ug/kg	
				1,2-Dibromo-3-chloro-propane (DB		U	ug/kg	
				1,2-Dibromoethane (EDB)		U	ug/kg	11
				1,2-Dichloroethane		U	ug/kg	5.3

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
VOC	CAN113-B330-1050	0436190012SA	50-52	1,2-Dichloroethene (total)		U	ug/kg	5.3
				1,2-Dichloropropane		U	ug/kg	5.3
				1,4-Dioxane		U	ug/kg	530
				2-Butanone (MEK)		U	ug/kg	11
				2-Hexanone		U	ug/kg	11
				4-Methyl-2-pentanone (MIBK)		U	ug/kg	11
				Acetone	5.2	J	ug/kg	11
				Acetonitrile		U	ug/kg	210
				Acrolein		U	ug/kg	110
				Acrylonitrile		U	ug/kg	110
				Allyl chloride		U	ug/kg	11
				Benzene		U	ug/kg	5.3
				Bromodichloromethane		U	ug/kg	5.3
				Bromoform		U	ug/kg	5.3
				Bromomethane		U	ug/kg	11
				Carbon disulfide		U	ug/kg	5.3
				Carbon tetrachloride		U	ug/kg	5.3
				Chlorobenzene		U	ug/kg	5.3
				Chloroethane		U	ug/kg	11
				Chloroform		U	ug/kg	5.3
				Chloromethane		U	ug/kg	11
				Chloroprene		U	ug/kg	5.3
				cis-1,3-Dichloropropene		U	ug/kg	5.3
				Dibromochloromethane		U	ug/kg	5.3
				Dibromomethane		U	ug/kg	5.3
				Dichlorodifluoromethane		U	ug/kg	21
				Ethyl methacrylate		U	ug/kg	21
				Ethylbenzene		U	ug/kg	5.3
				Iodomethane		U	ug/kg	5.3
				Isobutanol		U	ug/kg	210
				Methacrylonitrile		U	ug/kg	5.3
				Methyl methacrylate		U	ug/kg	21
				Methylene chloride		U	ug/kg	5.3
				Propionitrile		U	ug/kg	5.3
				Styrene		U	ug/kg	5.3
				Tetrachloroethene		U	ug/kg	5.3
				Toluene		U	ug/kg	5.3
				trans-1,3-Dichloropropene		U	ug/kg	5.3
				trans-1,4-Dichloro-2-butene		U	ug/kg	5.3
				Trichloroethene		U	ug/kg	5.3
				Trichlorofluoromethane		U	ug/kg	5.3
				Vinyl acetate		U	ug/kg	11
				Vinyl chloride		U	ug/kg	11
				Xylenes (total)		U	ug/kg	5.3
WETCHEM	CAN113-B301-0581	0437820014SA	-	Total Petroleum Hydrocarbons		U	mg/L	1
				Cyanide		U	mg/L	0.01
				Total Organic Carbon		U	mg/L	1
	CAN113-B301-1000	0437820001SA	0-.5	Cyanide		U	mg/kg	0.51
				Total Petroleum Hydrocarbons		U	mg/kg	40.8
	CAN113-B301-1001	0437820012SA		Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.5
	CAN113-B301-1028	0437820002SA	28-30	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.6
	CAN113-B301-1034	0437820003SA	34-36	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44.2

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
WETCHEM	CAN113-B301-1045	0437820004SA	45-47	Cyanide		U	mg/kg	0.54
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	43
	CAN113-B301-1055	0437820005SA	55-56.9	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.1
	CAN113-B301-1063	0437820006SA	63-64.8	Sulfide, Total		U	mg/kg	0.54
				Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.2
	CAN113-B302-1014	0437820007SA	14-16	Cyanide		U	mg/kg	0.57
				Total Petroleum Hydrocarbons		U	mg/kg	45.8
	CAN113-B302-1020	0437820008SA	20-22	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.6
	CAN113-B302-1030	0437820009SA	30-31.5	Cyanide		U	mg/kg	0.55
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	44.3
	CAN113-B302-1040	0437820010SA	40-41.8	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.1
	CAN113-B302-1050	0437820011SA	49-51	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.9
	CAN113-B303-1023	0437630001SA	23-25	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	42
	CAN113-B303-1028	0437630002SA	28-30	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.5
	CAN113-B303-1040	0437630003SA	40-42	Cyanide		U	mg/kg	
				Total Petroleum Hydrocarbons		U	mg/kg	
	CAN113-B303-1050	0437630004SA	50-51.4	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.4
	CAN113-B303-1058	0437630005SA	58-59.9	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.6
	CAN113-B304-1000	0435620006SA	0-.5	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.8
	CAN113-B304-1020	0435620007SA	20-22	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.4
	CAN113-B304-1025	0435620008SA	25-27	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.3
	CAN113-B304-1035	0435620009SA	35-36.3	Cyanide		U	mg/kg	0.57
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	45.8
	CAN113-B304-1045	0435620010SA	45-47	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.5
	CAN113-B304-1055	0435620011SA	55-57	Sulfide, Total		U	mg/kg	0.54
				Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	42.9
	CAN113-B305-1024	0435620001SA	24.5-26.5	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons	79.1		mg/kg	43.6
	CAN113-B305-1029	0435620002SA	29.5-31.5	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.6
	CAN113-B305-1039	0435620003SA	39.5-40.3	Cyanide		U	mg/kg	0.54
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	43.1
	CAN113-B305-1049	0435620004SA	49.5-51	Cyanide		U	mg/kg	
				Total Petroleum Hydrocarbons		U	mg/kg	
	CAN113-B305-1059	0435620005SA	59.5-60.8	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
WETCHEM	CAN113-B305-1059	0435620005SA	59.5-60.8	Total Petroleum Hydrocarbons		U	mg/kg	41.6
	CAN113-B306-1020	0437630012SA	20-21.9	Cyanide		U	mg/kg	0.57
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	45.2
	CAN113-B306-1025	0437630013SA	25-27	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.4
	CAN113-B306-1035	0437630014SA	35-37	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43
	CAN113-B306-1045	0437630015SA	45-47	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.1
	CAN113-B306-1055	0437630016SA	55-57.5	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.1
	CAN113-B307-1000	0436080001SA	0-.5	Cyanide		U	mg/kg	0.51
				Total Petroleum Hydrocarbons	66.5		mg/kg	41.2
	CAN113-B307-1024	0436080002SA	24-26	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.3
	CAN113-B307-1029	0436080003SA	29-30.8	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44
	CAN113-B307-1039	0436080004SA	39-41	Cyanide		U	mg/kg	0.54
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	43.5
	CAN113-B307-1049	0436080005SA	49-51	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.2
	CAN113-B307-1059	0436080006SA	59-60.9	Sulfide, Total	0.57		mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.3
	CAN113-B308-1020	0436080008SA	20-22	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.6
	CAN113-B308-1025	0436080009SA	25-27	Cyanide		U	mg/kg	0.59
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	46.9
	CAN113-B308-1035	0436080011SA	35-35.9	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44.3
	CAN113-B308-1045	0436080012SA	45-47	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.1
	CAN113-B308-1055	0436080013SA	55-57	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.7
	CAN113-B309-1018	0437350006SA	18-20	Cyanide		UJ	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.7
	CAN113-B309-1025	0437350007SA	25-26.5	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	42.9
	CAN113-B309-1035	0437350008SA	35-36.9	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.1
	CAN113-B309-1045	0437350010SA	45-47	Cyanide		U	mg/kg	0.53
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	42.1
	CAN113-B309-1053	0437350011SA	53-54.3	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.7
	CAN113-B310-1000	0435300001SA	0-.5	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons	49		mg/kg	41.6
	CAN113-B310-1029	0435300003SA	29.5-31	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44.1
	CAN113-B310-1034	0435300004SA	34-35.3	Cyanide		U	mg/kg	0.53

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
WETCHEM	CAN113-B310-1034	0435300004SA	34-35.3	Total Petroleum Hydrocarbons		U	mg/kg	42
	CAN113-B310-1044	0435300005SA	44-46	Cyanide		U	mg/kg	0.52
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	41.4
	CAN113-B310-1054	0435300006SA	54-55	Cyanide		U	mg/kg	0.51
				Total Petroleum Hydrocarbons		U	mg/kg	40.9
	CAN113-B310-1064	0435300007SA	64-65	Sulfide, Total		U	mg/kg	0.52
			66-65	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.7
	CAN113-B311-1031	0435300008SA	31-33	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.9
	CAN113-B311-1035	0435300009SA	35-35.8	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons	59.1		mg/kg	43.7
	CAN113-B311-1045	0435300010SA	45-47	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.9
	CAN113-B311-1055	0435300011SA	55-57	Cyanide		U	mg/kg	0.52
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	41.6
	CAN113-B311-1065	0435620012SA	65-66.4	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.3
	CAN113-B312-1027	0437200001SA	27.5-29.5	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.1
	CAN113-B312-1034	0437200002SA	34-36	Cyanide		U	mg/kg	0.54
				Total Organic Carbon		U	%	
				Total Petroleum Hydrocarbons		U	mg/kg	[illegible]
	CAN113-B312-1045	0437200003SA	45-47	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.8
	CAN113-B312-1055	0437200004SA	55-57	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.7
	CAN113-B312-1065	0437200005SA	65-65.6	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	42
	CAN113-B313-1000	0437630006SA	0-.5	Cyanide		U	mg/kg	0.51
				Total Petroleum Hydrocarbons		U	mg/kg	41.2
	CAN113-B313-1027	0437630007SA	27-29	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.7
	CAN113-B313-1032	0437630008SA	32-34	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.8
	CAN113-B313-1040	0437630009SA	40-42	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.5
	CAN113-B313-1050	0437630010SA	50-51.5	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.7
	CAN113-B313-1062	0437630011SA	62-64.5	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	42.5
	CAN113-B314-1032	0437200006SA	32-33.9	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.6
	CAN113-B314-1038	0437200007SA	38-39.1	Cyanide		U	mg/kg	0.56
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	44.7
	CAN113-B314-1045	0437200008SA	45-47	Cyanide		U	mg/kg	
				Total Petroleum Hydrocarbons		U	mg/kg	
	CAN113-B314-1057	0437200009SA	57-60.5	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
WETCHEM	CAN113-B314-1067	0437200010SA	67-68.5	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.4
	CAN113-B315-1020	0437350001SA	20-22	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44.4
	CAN113-B315-1025	0437350002SA	25-27	Cyanide		U	mg/kg	0.56
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	44.4
	CAN113-B315-1035	0437350003SA	35-35.8	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.5
	CAN113-B315-1045	0437350004SA	45-46.8	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.9
	CAN113-B315-1055	0437350005SA	55-55.8	Sulfide, Total		U	mg/kg	0.54
				Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	42.9
	CAN113-B316-1000	0436970006SA	0-.5	Cyanide		U	mg/kg	0.51
				Total Petroleum Hydrocarbons	72.5		mg/kg	40.8
	CAN113-B316-1045	0436970008SA	45-46.9	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	42
	CAN113-B316-1050	0436970010SA	50-50.9	Cyanide		U	mg/kg	0.53
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	42.2
	CAN113-B316-1060	0436970011SA	60-60.9	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.4
	CAN113-B316-1070	0436970012SA	70-70.8	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.1
	CAN113-B316-1080	0436970013SA	80-81.5	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.5
	CAN113-B317-1019	0436970014SA	19-20.3	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	42.8
	CAN113-B317-1025	0436970015SA	25-26.5	Cyanide		U	mg/kg	0.53
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons	170		mg/kg	42.8
	CAN113-B317-1035	0436970016SA	35-36.3	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.5
	CAN113-B317-1045	0436970017SA	45-46.9	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.5
	CAN113-B317-1053	0436970018SA	53-55	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.5
	CAN113-B318-1028	0436970019SA	28-29.9	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.4
	CAN113-B318-1033	0436970020SA	33-35	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.2
	CAN113-B318-1045	0437200016SA	45-47	Cyanide		U	mg/kg	0.53
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	42.1
	CAN113-B318-1055	0437200017SA	55-56.5	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.9
	CAN113-B318-1063	0437200018SA	63-63.8	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.6
	CAN113-B319-1000	0437200019SA	0-.5	Cyanide		U	mg/kg	0.5
				Total Petroleum Hydrocarbons	43.5		mg/kg	40.4
	CAN113-B319-1018	0437200020SA	18-20	Cyanide		U	mg/kg	0.54

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
WETCHEM	CAN113-B319-1018	0437200020SA	18-20	Total Petroleum Hydrocarbons		U	mg/kg	43.2
	CAN113-B319-1025	0437200021SA	25-27	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.8
	CAN113-B319-1035	0437200022SA	35-35.9	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	42.9
	CAN113-B319-1045	0437200023SA	45-47	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	42
	CAN113-B319-1053	0437200024SA	53-56.5	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	42.2
	CAN113-B320-1016	0436970001SA	16-17.5	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.7
	CAN113-B320-1020	0436970002SA	20-22	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44.2
	CAN113-B320-1030	0436970003SA	30-32	Cyanide		U	mg/kg	0.58
				Total Petroleum Hydrocarbons		U	mg/kg	46
	CAN113-B320-1040	0436970004SA	40-41.8	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43
	CAN113-B320-1052	0436970005SA	52-53	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.8
	CAN113-B321-1022	0437350012SA	22-22.9	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	42.8
	CAN113-B321-1027	0437350013SA	27-29	Cyanide		U	mg/kg	
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	45.1
	CAN113-B321-1035	0437350014SA	35-35.8	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.5
	CAN113-B321-1045	0437350015SA	45-46.8	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.6
	CAN113-B321-1057	0437350016SA	57-58.8	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.7
	CAN113-B322-1000	0436170012SA	0-.5	Cyanide		U	mg/kg	0.51
				Total Petroleum Hydrocarbons	51		mg/kg	41
	CAN113-B322-1018	0436170001SA	18-20	Cyanide		U	mg/kg	0.51
				Total Petroleum Hydrocarbons		U	mg/kg	41.1
	CAN113-B322-1025	0436170002SA	25-25.5	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.7
	CAN113-B322-1035	0436170003SA	35-36.2	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.4
	CAN113-B322-1045	0436170004SA	45-45.9	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.8
	CAN113-B322-1056	0436170005SA	56.5-58.5	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.4
	CAN113-B323-1019	0436170013SA	19-20.5	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.6
	CAN113-B323-1024	0436170014SA	24-26	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.7
	CAN113-B323-1035	0436170015SA	35-36.3	Cyanide		U	mg/kg	0.55
				Total Organic Carbon		U	%	
				Total Petroleum Hydrocarbons		U	mg/kg	
	CAN113-B323-1045	0436170016SA	45-47	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.9

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
WETCHEM	CAN113-B323-1054	0436170017SA	54-55.1	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.1
	CAN113-B324-1024	0437200011SA	24-26	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44.2
	CAN113-B324-1029	0437200012SA	29-29.8	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons	164		mg/kg	43.4
	CAN113-B324-1040	0437200013SA	40-42	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.1
	CAN113-B324-1050	0437200014SA	50-50.8	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.9
	CAN113-B324-1059	0437200015SA	59-60	Sulfide, Total		U	mg/kg	0.54
				Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.1
	CAN113-B325-1000	0436170006SA	0-.5	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.3
	CAN113-B325-1024	0436170007SA	24-26	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	45
	CAN113-B325-1030	0436170008SA	30-30.9	Cyanide		U	mg/kg	0.6
				Total Petroleum Hydrocarbons		U	mg/kg	48.4
	CAN113-B325-1040	0436170009SA	40-42	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.3
	CAN113-B325-1050	0436170010SA	50-50.5	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44.3
	CAN113-B325-1060	0436170011SA	60-62	Sulfide, Total		U	mg/kg	0.54
				Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	42.8
	CAN113-B326-1021	0436190001SA	21.5-23	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.8
	CAN113-B326-1027	0436190003SA	27-29	Cyanide		U	mg/kg	0.55
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	44.1
	CAN113-B326-1037	0436190004SA	37-39	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.1
	CAN113-B326-1047	0436190005SA	47-47.5	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.4
	CAN113-B326-1055	0436190006SA	55-56.5	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.2
	CAN113-B327-1021	0436190013SA	21-23	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.3
	CAN113-B327-1024	0436190014SA	24.5-26.5	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.7
	CAN113-B327-1034	0436190015SA	34.5-36.5	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.6
	CAN113-B327-1044	0436190016SA	44.5-46	Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.2
	CAN113-B327-1057	0436190017SA	57.5-58.1	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.7
	CAN113-B328-1000	0436180006SA	0-.5	Cyanide		U	mg/kg	0.52
				Total Organic Carbon	0.57		%	0.2
				Total Petroleum Hydrocarbons	85.6		mg/kg	41.4
	CAN113-B328-1020	0436180007SA	20-21.5	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.4
	CAN113-B328-1025	0436180008SA	25-27	Cyanide		U	mg/kg	0.56

CANNON AFB - Landfill #5
SUMMARY OF RESULTS

CHEM GROUP	Field ID	Lab ID	DEPTH	CHEMICAL	RESULT	QUAL.	UNITS	DL
WETCHEM	CAN113-B328-1025	0436180008SA	25-27	Total Petroleum Hydrocarbons		U	mg/kg	44.8
	CAN113-B328-1035	0436180009SA	35-37	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.5
	CAN113-B328-1045	0436180010SA	45-47	Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.6
	CAN113-B328-1055	0436180011SA	55-57	Sulfide, Total		U	mg/kg	0.52
				Cyanide		U	mg/kg	0.52
				Total Petroleum Hydrocarbons		U	mg/kg	41.9
	CAN113-B329-1014	0436180001SA	14-16	Cyanide		U	mg/kg	0.56
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	45.2
	CAN113-B329-1020	0436180002SA	20-22	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	45.1
	CAN113-B329-1030	0436180003SA	30-32	Cyanide		U	mg/kg	0.54
				Total Petroleum Hydrocarbons		U	mg/kg	43.6
	CAN113-B329-1040	0436180004SA	40-42	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	44
	CAN113-B329-1050	0436180005SA	50-51.8	Sulfide, Total		U	mg/kg	0.55
				Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.8
	CAN113-B330-1014	0436190007SA	14.5-16.5	Cyanide		U	mg/kg	0.56
				Total Petroleum Hydrocarbons		U	mg/kg	44.7
	CAN113-B330-1020	0436190008SA	20-21.3	Cyanide		U	mg/kg	0.55
				Total Petroleum Hydrocarbons		U	mg/kg	43.7
	CAN113-B330-1030	0436190010SA	30-32	Cyanide		U	mg/kg	
				Total Petroleum Hydrocarbons		U	mg/kg	
	CAN113-B330-1040	0436190011SA	40-42	Cyanide		U	mg/kg	0.54
				Total Organic Carbon		U	%	0.2
				Total Petroleum Hydrocarbons		U	mg/kg	42.8
	CAN113-B330-1050	0436190012SA	50-52	Sulfide, Total		U	mg/kg	0.53
				Cyanide		U	mg/kg	0.53
				Total Petroleum Hydrocarbons		U	mg/kg	42.3

APPENDIX F
DATA VALIDATION REPORT

APPENDIX F
TABLE OF CONTENTS

Section			Page
1.0	FULL VALIDATION - PCDDs/PCDFs		1-1
	1.1	INTRODUCTION	1-1
	1.2	HOLDING TIMES	1-2
	1.3	BLANKS	1-2
	1.4	INITIAL CALIBRATION	1-2
	1.4.1	Window Defining Mix	1-2
	1.4.2	Multiple Standards Analysis	1-3
	1.5	DAILY CALIBRATION	1-4
	1.5.1	Window Defining Mix	1-4
	1.5.2	Mid-Low Calibration Standard Analysis	1-4
	1.6	RECOVERY STANDARDS	1-6
	1.7	INTERNAL STANDARDS	1-6
	1.8	LABORATORY CONTROL SAMPLE	1-6
	1.9	SAMPLE ANALYSIS REVIEW CRITERIA	1-7
	1.9.1	Mass Spectrometer Scanning Time	1-7
	1.9.2	Retention Times and Ion Ratios for Detected Analytes	1-7
	1.9.3	Signal to Noise Ratio for Detected Analytes	1-8
	1.9.4	Signal to Noise Ratio for Internal Standards	1-8
	1.9.5	Sample Result Recalculations	1-8
	1.10	FIELD DUPLICATE AGREEMENT	1-9
	1.11	DATA PACKAGE COMPLETENESS	1-9
	1.12	OVERALL ASSESSMENT OF DATA	1-9
2.0	FULL VALIDATION - OTHER ANALYSES		2-1
	2.1	VOLATILE ORGANICS ANALYSIS	2-3
	2.2	SEMIVOLATILE ORGANICS ANALYSIS	2-15
	2.3	ORGANOCHLORINE PESTICIDE/PCBS ANALYSIS	2-27
	2.4	METALS ANALYSIS	2-34

Section			Page
	2.5	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH) ANALYSIS	2-46
	2.6	CHLORINATED HERBICIDES ANALYSIS	2-50
	2.7	TOTAL ORGANIC CARBON (TOC) ANALYSIS	2-54
	2.8	CYANIDE AND SULFIDE ANALYSES	2-57
	2.9	ORGANOPHOSPHORUS PESTICIDES ANALYSIS	2-61
3.0	QC REVIEW - PCDDs/PCDFs		3-1
	3.1	QC REVIEW PARAMETER SUMMARY	3-1
	3.1.1	Introduction	3-1
	3.1.2	Holding Times	3-1
	3.1.3	Blank Contamination	3-2
	3.1.4	Internal Standard Performance	3-2
	3.1.5	Laboratory Control Sample Results	3-2
	3.1.6	Field Duplicate Agreement	3-3
	3.1.7	Ion Ratios for Analytes Reported as Detected in Sample Data	3-3
	3.1.8	Completeness of the Data Package	3-4
	3.1.9	Overall Assessment of Data	3-4
	3.2	QC REVIEW - DATA PACKAGE #43699	3-4
	3.2.1	QC Review Results	3-5
	3.2.2	Overall Assessment of Data	3-5
	3.3	QC REVIEW - DATA PACKAGE #43764	3-5
	3.3.1	QC Review Results	3-6
	3.3.2	Overall Assessment of Data	3-6
4.0	QC REVIEW - OTHER ANALYSES		4-1
	4.1	QC REVIEW - PARAMETER SUMMARY	4-1
	4.1.1	Introduction	4-1
	4.1.2	Metals and Total Cyanide	4-2

Section			Page
	4.1.3	Volatile Organic Analysis	4-5
	4.1.4	Semivolatile Organic Analysis	4-9
	4.1.5	Organochlorine Pesticide/PCB Organic Analysis	4-13
	4.1.6	Organophosphorus Pesticides Analysis	4-16
	4.1.7	Herbicides Analysis	4-19
	4.1.8	Total Recoverable Petroleum Hydrocarbon (TRPH) Analysis	4-21
	4.1.9	Total Organic Carbon (TOC) Analysis	4-23
	4.1.10	Sulfide Analysis	4-25
4.2	QC REVIEW DATA PACKAGE 043530		4-27
	4.2.1	Introduction	4-27
	4.2.2	Volatile Organics By Method 8240	4-28
	4.2.3	Semivolatile Organics By Method 8270	4-29
	4.2.4	Organochlorine Pesticide/PCBs By Method 8080	4-31
	4.2.5	Organophosphorus Pesticides By Method 8140	4-31
	4.2.6	Herbicides By Method 8150	4-32
	4.2.7	Metals	4-32
	4.2.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-34
	4.2.9	Total Organic Carbon (TOC)	4-35
	4.2.10	Sulfide	4-35
	4.2.11	Cyanide	4-35
4.3	QC REVIEW DATA PACKAGE 043562		4-36
	4.3.1	Introduction	4-36
	4.3.2	Volatile Organics By Method 8240	4-37
	4.3.3	Semivolatile Organics By Method 8270	4-38
	4.3.4	Organochlorine Pesticide/PCBs By Method 8080	4-40
	4.3.5	Organophosphorus Pesticides By Method 8140	4-40
	4.3.6	Herbicides By Method 8150	4-41
	4.3.7	Metals	4-42
	4.3.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-43
	4.3.9	Total Organic Carbon (TOC)	4-44
	4.3.10	Sulfide	4-44
	4.3.11	Cyanide	4-45

Section			Page
4.4	QC REVIEW DATA PACKAGE 043608		4-45
	4.4.1	Introduction	4-45
	4.4.2	Volatile Organics By Method 8240	4-46
	4.4.3	Semivolatile Organics By Method 8270	4-47
	4.4.4	Organochlorine Pesticide/PCBs By Method 8080	4-49
	4.4.5	Organophosphorus Pesticides By Method 8140	4-50
	4.4.6	Herbicides By Method 8150	4-50
	4.4.7	Metals	4-51
	4.4.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-53
	4.4.9	Total Organic Carbon (TOC)	4-54
	4.4.10	Sulfide	4-54
	4.4.11	Cyanide	4-54
4.5	QC REVIEW - DATA PACKAGE 043618		4-55
	4.5.1	Introduction	4-55
	4.5.2	Volatile Organics By Method 8240	4-56
	4.5.3	Semivolatile Organics By Method 8270	4-57
	4.5.4	Organochlorine Pesticide/PCBs By Method 8080	4-59
	4.5.5	Organophosphorus Pesticides By Method 8140	4-59
	4.5.6	Herbicides By Method 8150	4-59
	4.5.7	Metals	4-60
	4.5.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-62
	4.5.9	Total Organic Carbon (TOC)	4-63
	4.5.10	Sulfide	4-63
	4.5.11	Cyanide	4-63
4.6	QUALITY CONTROL REVIEW - SDG 043619		4-64
	4.6.1	Introduction	4-64
	4.6.2	Volatile Organics By Method 8240	4-65
	4.6.3	Semivolatile Organics By Method 8270	4-67
	4.6.4	Organochlorine Pesticides/PCBs By Method 8080	4-68
	4.6.5	Organophosphorus Pesticides By Method 8140	4-68
	4.6.6	Herbicides By Method 8150	4-69
	4.6.7	Metals	4-69
	4.6.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-72

Section			Page
	4.6.9	Total Organic Carbon (TOC)	4-72
	4.6.10	Sulfide	4-73
	4.6.11	Cyanide	4-73
4.7	QC REVIEW - DATA PACKAGE 043697		4-73
	4.7.1	Introduction	4-73
	4.7.2	Volatile Organics By Method 8240	4-75
	4.7.3	Semivolatile Organics By Method 8270	4-77
	4.7.4	Organochlorine Pesticide/PCBs By Method 8080	4-78
	4.7.5	Organophosphorus Pesticides By Method 8140	4-79
	4.7.6	Herbicides By Method 8150	4-80
	4.7.7	Metals	4-80
	4.7.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-83
	4.7.9	Total Organic Carbon (TOC)	4-84
	4.7.10	Sulfide	4-84
	4.7.11	Cyanide	4-85
4.8	QC REVIEW - DATA PACKAGE 043720		4-85
	4.8.1	Introduction	4-85
	4.8.2	Volatile Organics By Method 8240	4-86
	4.8.3	Semivolatile Organics By Method 8270	4-89
	4.8.4	Organochlorine Pesticide/PCBs By Method 8080	4-91
	4.8.5	Organophosphorus Pesticides By Method 8140	4-91
	4.8.6	Herbicides By Method 8150	4-92
	4.8.7	Metals	4-92
	4.8.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-97
	4.8.9	Total Organic Carbon (TOC)	4-97
	4.8.10	Sulfide	4-97
	4.8.11	Cyanide	4-98
4.9	QUALITY CONTROL REVIEW - SDG 043735		4-98
	4.9.1	Introduction	4-98
	4.9.2	Volatiles By Method 8240	4-98
	4.9.3	Semivolatile Organics By Method 8270	4-102
	4.9.4	Organochlorine Pesticide/PCBs By Method 8080	4-104

Section			Page
	4.9.5	Organophosphorus Pesticides By Method 8140	4-105
	4.9.6	Herbicides By Method 8150	4-106
	4.9.7	Metals	4-106
	4.9.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-108
	4.9.9	Total Organic Carbon (TOC)	4-108
	4.9.10	Sulfide	4-109
	4.9.11	Cyanide	4-109
4.10	QC REVIEW - DATA PACKAGE 043763		4-110
	4.10.1	Introduction	4-110
	4.10.2	Volatile Organics By Method 8240	4-111
	4.10.3	Semivolatile Organics By Method 8270	4-113
	4.10.4	Organochlorine Pesticide/PCBs By Method 8080	4-115
	4.10.5	Organophosphorus Pesticides By Method 8140	4-116
	4.10.6	Herbicides By Method 8150	4-116
	4.10.7	Metals	4-117
	4.10.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-119
	4.10.9	Total Organic Carbon (TOC)	4-119
	4.10.10	Sulfide	4-120
	4.10.11	Cyanide	4-120
4.11	QC REVIEW - DATA PACKAGE 043782		4-120
	4.11.1	Introduction	4-120
	4.11.2	Volatile Organics By Method 8240	4-122
	4.11.3	Semivolatile Organics By Method 8270	4-123
	4.11.4	Organochloride Pesticide/PCBs By Method 8080	4-125
	4.11.5	Organophosphorus Pesticides By Method 8140	4-125
	4.11.6	Herbicides By Method 8150	4-126
	4.11.7	Metals	4-126
	4.11.8	Total Recoverable Petroleum Hydrocarbons (TRPH)	4-128
	4.11.9	Total Organic Carbon (TOC)	4-129
	4.11.10	Sulfide	4-129
	4.11.11	Cyanide	4-130

1.1 INTRODUCTION

Six environmental samples were analyzed for the polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDDs/PCDFs) contained on the Appendix IX list of compounds utilizing EPA Method 8280. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B322-1056	043634-0001-SA
CAN113-B325-1060	043634-0002-SA
CAN113-B323-1054	043634-0003-SA
CAN113-B326-1055	043634-0004-SA
CAN113-B330-050G	043634-0005-SA
CAN113-B327-1057	043634-0006-SA

The field sample labeled as CAN113-B330-050G on the Chain-of-Custody (COC) form and in the data package was not labeled in accordance with the sample numbering protocol contained in the DCQAP. This sample should have been labeled as CAN113-B330-1050 rather than with the 050G suffix indicating a sample split sent to the Quality Assurance laboratory (USACE Missouri River Division Laboratory).

Samples in this data package underwent a full validation in accordance with the provisions of Section 5.3.1.4 of the DCQAP. This data package contains 6 of the 15 (40%) environmental samples collected for PCDD/PCDF analysis satisfying the DCQAP requirement that at least 10% of the sample analyses undergo a full validation.

1.2 HOLDING TIMES

Holding times were calculated by subtracting the sampling date for a given sample listed on the COC form from the extraction date found on the preparation logs and by subtracting the extraction date found on the preparation logs from the analysis date on the instrument printouts (quantitation reports). Holding time limits specified in Table 4-2 of the DCQAP were no more than 30 days from sample collection to extraction and no more than 45 days from sample extraction to analysis. No sample extractions or analyses were found to have exceeded holding time limits.

No sample data required qualification on the basis of holding time limit exceedances.

1.3 BLANKS

Method blank contamination was evaluated by reviewing the reported concentration of target analytes on the analysis results summary page. All target analytes were reported as not detected in the method blank with detection limits consistent with those specified in the DCQAP. In addition, the raw data associated with this analysis were reviewed to evaluate whether the raw data support the reported results. No errors in reporting were found.

No sample data required qualification on the basis of method blank contamination.

1.4 INITIAL CALIBRATION

1.4.1 Window Defining Mix

Review of the dates contained on the instrument printouts for the window defining mix and the calibration solutions indicated that the window defining mix was analyzed prior to the initial calibration and prior to the continuing calibration in accordance with method requirements. These analyses meet the frequency requirement for analysis of the window defining mix.

Since no sample results for 2,3,7,8-TCDD were reported as detected on the DB-5 column analysis, no confirmation analysis on the SP-2331 column was required for this data package.

Thus, the laboratory was not required to provide a demonstration of adequate peak separation for SP-2331 analyses.

No sample data required qualification on the basis of analysis of the window defining mix associated with the initial calibration.

1.4.2 Multiple Standards Analysis

Review of the initial calibration summary sheets and of the instrument printouts indicated that an initial calibration was performed utilizing the required standards at five different concentrations.

Since no sample results for 2,3,7,8-TCDD were reported as detected on the DB-5 column analysis, no confirmation analysis on the SP-2331 column was required for this data package. Thus, the laboratory was not required to provide calibration information for SP-2331 analyses.

Review of the instrument printouts in the raw data for the analysis of the window defining mix and the analyses at the 5 concentration levels indicated that, for all calibration solutions, the retention times of the isomers fell within the retention time windows established by the window defining mix. Review of the instrument printouts and the Selected Ion Current Profiles (SICPs) indicated that the confirmation and quantitation ions for each homolog maximized simultaneously (within 1 second) and within 3 seconds of the corresponding ions of the labeled isomers.

Review of the five-point curve summary report for the initial calibration indicated that the relative standard deviation (RSD) across response factors (RFs) for each native compound and for each labeled internal standard did not exceed 15%. More than 10% of the RFs reported on the summary report were recalculated from the instruments printouts and no errors in calculation or transcription were found. This recalculation agreement indicated that the quantitation ions and internal standards specified in the DCQAP for use in quantitation of sample results were those used in calculating the RFs.

The ion ratios reported on the instrument printouts were reviewed to evaluate whether the ion ratios for native 2,3,7,8-TCDD, the internal standards, and the recovery standard fell within the acceptance ranges specified in Section 5.3.1.4 of the DCQAP. No instances were found in which reported ion ratios were outside of acceptance limits. More than 10% of the ion ratios reported on the instrument printout were recalculated from the peak areas and no errors in calculation or transcription were found.

No sample data required qualification on the basis of initial calibration results.

1.5 DAILY CALIBRATION

1.5.1 Window Defining Mix

Review of the dates contained on the instrument printouts for the window defining mix and the continuing calibration solution indicated that the window defining mix was analyzed prior to the continuing calibration associated with all sample analyses in this data package. This analysis meets the frequency requirement for analysis of the window defining mix.

Since no sample results for 2,3,7,8-TCDD were reported as detected on the DB-5 column analysis, no confirmation analysis on the SP-2331 column was required for this data package. Thus, the laboratory was not required to provide a continuing calibration information for SP-2331 analyses.

No sample data required qualification on the basis of analysis of the window defining mix associated with the continuing calibration.

1.5.2 Mid-Low Calibration Standard Analysis

Review of the dates and times printed on the SICPs for the continuing calibration standard analysis and the sample analyses indicated that the continuing calibration standard was analyzed at the beginning of a 12-hour period during which all sample analyses occurred.

The scanning time for the mass spectrometer was calculated by dividing the time differential reported on the SICP printouts by the number of scans reported on the SICP printouts for the

continuing calibration standard. The scanning time was calculated to be less than the 1.5 second maximum scanning time specified in the DCQAP.

Review of the retention times printed on the SICPs for all target analytes and internal standards from the continuing calibration analysis indicated that no retention times were found to be outside of the retention time windows derived from the retention times printed on the SICPs for the window defining mix analysis.

The SICPs for all homologous groups were reviewed to evaluate whether the confirmation and quantitation ions maximized simultaneously (within 1 second) and within 3 seconds of the corresponding ions for the labeled isomers. No deviations from these criteria were found.

The SICPs for all homologous groups were reviewed to evaluate whether the signal to noise ratio met the acceptance criterion. No instances were found where the signal to noise ratio exceeded the criterion of less than 2.5.

The ion ratios reported on the instrument printouts for the continuing calibration standard were reviewed to evaluate whether the ion ratios for native 2,3,7,8-TCDD, the internal standards, and the recovery standard fell within the acceptance ranges specified in Section 5.3.1.4 of the DCQAP. No instances were found in which reported ion ratios were outside of acceptance limits. More than 10% of the ion ratios reported on the instrument printout were recalculated from the peak areas and no errors in calculation or transcription were found.

The summary report for RFs for all target analytes and internal standards in the continuing calibration analysis was reviewed to evaluate whether the RFs met the acceptance criterion specified in the DCQAP. No instances were found where the percent difference between the RF from the continuing calibration and the average RF from the initial calibration exceeded the acceptance criterion of less than $\pm 30\%$. More than 10% of the RFs reported on the summary report were recalculated from the instruments printouts and no errors in calculation or transcription were found. This recalculation agreement indicated that the quantitation ions and internal standards specified in the DCQAP for use in quantitation of sample results were those used in calculating the RFs. These recalculations also indicated that the same internal

standard was used to calculate the RFs for each homolog as was used for the initial calibration.

No sample data required qualification on the basis of initial calibration results.

1.6 RECOVERY STANDARDS

The ion ratios reported for the ^{13}C-1,2,3,4-TCDD recovery standard on the instrument printouts for all sample analyses were reviewed to evaluate whether the ion ratios were within the acceptance range specified in the DCQAP of 0.65 - 0.89. No instances were found in which the recovery standard ion ratio fell outside of this acceptance range.

No sample data required qualification on the basis of recovery standard ion ratios.

1.7 INTERNAL STANDARDS

The ion ratios reported for the labeled internal standards on the instrument printouts for all sample analyses were reviewed to evaluate whether the ion ratios were within the acceptance ranges specified in Section 5.3.1.4 of the DCQAP. No instances were found in which the labeled internal standard ion ratios fell outside of these acceptance ranges.

The internal standard recoveries for all samples reported on the analysis result summary forms were reviewed to evaluate whether the recoveries fell within the acceptance range of 40 - 120% specified in the DCQAP. No instances were found in which internal standard recoveries for sample analyses fell outside of this acceptance range.

No sample data required qualification on the basis of internal standard performance.

1.8 LABORATORY CONTROL SAMPLE

The percent recoveries for all target analytes and labeled internal standards in the laboratory control sample analysis reported on the laboratory control sample summary report and the dioxin/furan review sheet were reviewed against the acceptance criteria contained in Table 2-

3e of the DCQAP. No instances were found in which the percent recovery was outside of these acceptance criteria.

The laboratory did not analyze the laboratory control sample in duplicate so no direct evaluation of laboratory control sample analysis precision was possible. However, the reviewer calculated the relative percent differences (RPD) between the percent recoveries for the target analytes calculated from the continuing calibration standard analysis and the percent recoveries for the target analyte(s) reported for the laboratory control samples. No instances were found in which the RPD so calculated exceeded the RPD limits for duplicate laboratory control sample analysis. In the professional judgment of the reviewer, this is considered to be an adequate demonstration of the precision of the sample analysis on laboratory standards and no qualification of associated sample data was considered necessary.

No sample data required qualification on the basis of laboratory control sample analysis results.

1.9 SAMPLE ANALYSIS REVIEW CRITERIA

1.9.1 Mass Spectrometer Scanning Time

The scanning time for the mass spectrometer was calculated by dividing the time differential reported on the SICP printouts by the number of scans reported on the SICP printouts for one third of the samples. The scanning time was calculated to be less than the 1.5 second maximum scanning time specified in the DCQAP.

No sample data required qualification on the basis of scanning time.

1.9.2 Retention Times and Ion Ratios for Detected Analytes

No target analytes for any samples were reported as detected on the sample analysis summary sheets. As such, the validation criteria for retention times and for ion ratios for 2,3,7,8-substituted isomers and those for non-2,3,7,8-substituted isomers are not applicable to data reported within this data package.

No sample data required qualification on the basis of retention times or ion ratios for detected analytes.

1.9.3 Signal to Noise Ratio for Detected Analytes

No target analytes for any samples were reported as detected on the sample analysis summary sheets. As such, the validation criterion for a signal to noise ratio greater than 2.5 for an analyte to be reported as detected is not applicable to data reported within this data package.

The SICPs were reviewed to evaluate whether any peaks were present that exceeded the signal to noise ratio criterion of 2.5, had acceptable ion ratios, and were not reported by the laboratory as detected analytes. No such instances were found.

No sample data required qualification on the basis of signal to noise ratio for detected analytes.

1.9.4 Signal to Noise Ratio for Internal Standards

The SICPs were reviewed to evaluate whether the signal to noise ratio for all internal standards for all sample analyses met the acceptance criterion of >10 specified in the DCQAP. No instances were found in which the internal standard signal to noise ratio failed to meet this acceptance criterion.

No sample data required qualification on the basis of signal to noise ratios for internal standards.

1.9.5 Sample Result Recalculations

Since no sample results were reported as detected, no recalculation of concentrations was required.

Since no sample results were reported as estimated maximum possible concentrations (EMPCs), no recalculation of EMPCs was required.

The reviewer recalculated more than 10% of all detection limits reported on the sample result summary form for each sample from the areas and response factors from the instrument printouts. No errors in calculation or transcription were found. The recalculations indicated that detection limits reported on the summary forms had been calculated on a dry weight basis.

1.10 FIELD DUPLICATE AGREEMENT

Sample CAN113-B306-1055 and sample CAN113-B306-0561 were the field duplicate pair associated with all sample analyses reported in this data package. The results for analysis of this field duplicate sample pair were reported in Data Package 043764 (See Section 3.3 for the quality control review of these samples).

All results for all target analytes were reported as non-detect for both the sample and its field duplicate analyses. The validation criterion specified in the DCQAP for circumstances such as this where both sample analysis results are less than 5 times the reporting limit is that the absolute value of the difference between the two reported results should be less than 3 times the reporting limit. Since all results were reported as non-detect for both samples, the field duplicate pair analysis agreement met this validation criterion for all analytes.

No sample data required qualification on the basis of field duplicate sample analysis agreement.

1.11 DATA PACKAGE COMPLETENESS

The data package contents were reviewed against the data package deliverable requirements specified in Section 5.2 of the DCQAP. No required deliverables were found to be absent from the data package.

1.12 OVERALL ASSESSMENT OF DATA

Accuracy and precision of the sample analyses were considered to be acceptable as measured by the continuing calibration standard agreement, the laboratory control sample recoveries,

the internal standard recoveries, and the field duplicate sample analysis agreement. No circumstances were found in which quality control measures failed to meet acceptance criteria. All analytical results are considered to be useable as reported by the laboratory.

2.0
FULL VALIDATION - OTHER ANALYSES

This report describes the full data validation for data package #043617, which included reporting of the following analyses:

- Volatiles
- Semi-volatiles
- Organochlorine pesticides/PCBs
- Organophosphorus pesticides
- Chlorinated Herbicides
- Metals and Cyanide
- Total Recoverable Petroleum Hydrocarbons (TRPH)
- Total Organic Carbon (TOC)
- Sulfide

Data validation was conducted in accordance with SOP No. 10 from the Data Collection Quality Assurance Plan, RCRA Facility Investigation Phase I for Landfill No. 5 (SWMU No. 113/IRP No. LF-5)Project CZQZ 92 7007, Cannon Air Force Base, Clovis, New Mexico, WCC, July 1995 (DCQAP). Qualifiers assigned by the data reviewer have been transcribed onto the laboratory reporting forms.

A total of seventeen environmental samples were reported in data package #043617, of which 15 were soil boring samples and two were surface soil samples. Three of the soil boring samples were collected from the bottom of the borehole and were analyzed for the Appendix IX list of compounds, plus any additional compounds making up the Chemicals of Interest list but not included as an Appendix IX analyte. Two samples were also analyzed and reported for matrix spike/matrix spike duplicate analyses (or matrix spike/duplicate analyses for inorganic analyses) and which were associated with samples from this data package. Some additional MS/MSD analyses were associated with samples in this data package, but were reported in other data packages and the data review for these samples is discussed in the appropriate data package. Field duplicate samples associated with samples in this data package were also reported in other data package's and have been discussed in detail during the review process for that data package. The association

of MS/MSD analyses and field duplicate samples to environmental samples are shown on Tables B2-1 through B2-9. In each of these tables, the QC sample(s) is listed in bold at the top of each list with the associated samples listed below. Data package #043617 comprised the following environmental samples:

Field ID	Lab ID	Comments
CAN113-B322-1018	043617-0001	
CAN113-B322-1025	043617-0002	
CAN113-B322-1035	043617-0003	MS/MSD Analysis
CAN113-B322-1045	043617-0004	
CAN113-B322-1056	043617-0005	
CAN113-B325-1000	043617-0006	
CAN113-B325-1024	043617-0007	
CAN113-B325-1030	043617-0008	MS/MSD Analysis
CAN113-B325-1040	043617-0009	
CAN113-B325-1050	043617-0010	
CAN113-B325-1060	043617-0011	
CAN113-B322-1000	043617-0012	
CAN113-B323-1019	043617-0013	
CAN113-B323-1024	043617-0014	
CAN113-B323-1035	043617-0015	
CAN113-B323-1045	043617-0016	
CAN113-B323-1054	043617-0017	

All results reported as detected at concentrations below their respective reporting limit have been qualified as estimated and flagged "J". Precision of the analyses with respect to a given analyte is evaluated by calculating the relative percent difference (RPD) from duplicate results (e.g., matrix spike/matrix spike duplicate; sample/lab duplicate). Some minor differences are present between the RPDs discussed in the validation and QC review reports and those reported by the laboratory. These differences are due to the laboratory calculating the RPDs before rounding the percent recoveries and sample results. The laboratory reports the rounded percent recoveries and sample results on the hard copy data sheets which were used by the data reviewer. It is the judgment of the data reviewer that these minor differences do not affect the evaluation of the data quality.

2.1 VOLATILE ORGANIC ANALYSIS

Seventeen environmental samples were analyzed for volatile compounds; fourteen samples were reported for the Chemicals of Interest (COI) list of compounds referenced in the DCQAP and the three borehole bottom samples were analyzed for the Appendix IX list of volatile compounds, plus any additional compounds making up the Chemicals of Interest list but not included as an Appendix IX analyte. Analysis of the samples was conducted by Method 8240, from SW-846, Test Methods for Evaluating Solid Waste, (1986 and Final Update I, 1993). Validation of the analytical data followed the guidelines from SOP No. 10 and, in accordance with SOP No. 10, also followed the applicable guidelines from USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, February 1994).

Holding Times

Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the analysis date listed on the sample result form(s). The holding time limit for analysis for volatile organics is 14 days from the date of sample collection. All analyses were performed within holding times limits and no qualification of data on the basis of holding times was necessary.

Instrument Performance (GC/MS Tuning)

The instrument performance summary sheets were reviewed to verify that the ion abundance criteria for bromofluorobenzene specified in the method were met and that the instrument performance check was performed at the beginning of each 12-hour period in which samples or standards were analyzed. The raw data were reviewed for transcription errors and to check that the mass assignments were correct.

GC/MS tuning data were complete and in compliance with the above criteria. All values were within acceptance criteria and no qualification of the data was necessary.

Initial Calibration

Two instruments, instruments H and J, were used to conduct the analysis of samples from this data package. Initial calibration data for the COI and Appendix IX compounds were provided for each of the instruments.

Review of the initial calibration summary sheets and of the instrument printouts indicated that the initial calibrations were performed using the required standards at five different concentrations. The initial calibration summary report was reviewed for relative response factors (RRFs) and percent relative standard deviation (%RSD). Approximately 10 percent of the RRFs and %RSDs reported on the summary report were recalculated from the instruments printout and no errors in calculation or transcription were found.

To satisfy validation criteria, initial calibration RRFs must be equal to or greater than 0.050, and the percent relative standard deviation (%RSD) must be $\leq$30%. To meet contractual requirements, excluding analytes that have a poor historic response, up to two analytes may fail to meet the maximum %D as long as they have RRFs that are greater than or equal to 0.010, and %RSDs of less than or equal to 40.0% before a new calibration is required.

For instrument H, the RRFs and %RSDs met the validation criteria with the exception of the RRF for 1,4-Dioxane which was reported at 0.02750 and %RSD's for Trichlorofluoromethane and 1,4-Dioxane which were reported at 37.816% and 30.738%, respectively. The affected compounds are part of the Appendix IX list and not the COI list of compounds and only sample CAN113-B323-1054 was associated with the Appendix IX list.

In accordance with the validation guidelines, the Trichlorofluoromethane result for sample CAN113-B323-1054 has been qualified as estimated, 'J', on the basis of the %RSD exceedance. The response factor (RF) is a measure of instrument sensitivity and not accuracy or bias. A low value for the RF indicates lower instrument sensitivity and hence an elevated detection limit. The minimum RF criterion of 0.05 recommended in Functional Guidelines is applicable to the CLP analytes for which a RF > 0.05 is a reasonable criterion. Several of the Appendix IX analytes (1,4-dioxane, acetonitrile, isobutanol) typically have a lower response than the CLP analytes. In order to take into account the lower sensitivity of the analytical method to

these analytes, the laboratory has raised the reporting limits to a concentration at which they can reliably measure these analytes. The elevated reporting limit used by the laboratory for 1,4-dioxane is higher than the concentration of the low concentration standard. An evaluation of the response to the low concentration standard (i.e., 400 ug/kg) for 1,4-dioxane in the initial calibration indicates that the response per unit area of the peak is consistent with the higher concentration standards. In addition, the analyte peak in the total ion chromatogram is significantly above the instrument noise level and can be adequately detected at concentrations at or below the concentration of the low standard. As such, although the RF for 1,4-dioxane is less than 0.05, it is the judgment of the data reviewer that the instrument is capable of quantitating 1,4-dioxane at the reporting limit and, therefore, no qualification or rejection of the 1,4-dioxane data based on the RF is necessary.

However, as the %RSD for 1,4-dioxane (30.738 %) exceeded the 25 %RSD criterion, the non-detect result reported for 1,4-dioxane for sample CAN113-B323-1054 was qualified as estimated (UJ).

For instrument J, the RRF's and %RSD's met the validation criteria with the exception of the RRF for 1,4-Dioxane which was reported at 0.01493. 1,4-Dioxane is included on the Appendix IX list and is not on the COI list of compounds. Samples CAN113-B322-1056 and CAN113-B325-1060 were associated with the Appendix IX compound list. As discussed above, although the RF for 1,4-dioxane is less than 0.05, it is the judgment of the data reviewer that the instrument is capable of quantitating 1,4-dioxane at the reporting limit and, therefore, no qualification or rejection of the 1,4-dioxane data based on the RF is necessary.

Continuing Calibration

Three continuing calibrations were associated with samples from this data package; two associated with instrument H and one from instrument J.

Review of the continuing calibration summary sheets and of the instrument printout indicated that the continuing calibrations were performed using the appropriate mid-range standard and within 12-hours of the associated instrument performance check. The continuing calibration summary report was reviewed for response factor (RF) and percent difference (%D) verification. The initial

and continuing calibration summary reports were reviewed to verify that the continuing calibrations were associated with the appropriate initial calibration. Approximately 10 percent of the RFs and %Ds reported on the summary report were recalculated from the instruments printout and no errors in recalculation or transcription were found.

To satisfy validation criteria, continuing calibrations must be run at the beginning of each 12-hour analysis period, RRFs must be equal to or greater than 0.050, and the percent difference (%D) between initial calibration mean RRF and the continuing calibration RRF must be within ±25%. To meet contractual requirements, up to two analytes, excluding those historically exhibiting poor response, may fail to meet the maximum %D as long as they have RRFs that are greater than or equal to 0.010, and %D of less than or equal to 40.0% before a new calibration is required.

The continuing calibration reported for instrument H on 07/28/95 was associated with samples CAN113-B322-1018, CAN113-B322-1025, and CAN113-B322-1035. These three samples were analyzed for the COI list. The RRFs for the COI compounds were within the validation criteria, but two of the %Ds, Chloroethane and 1,2-Dichloroethane, were reported above the 25%D acceptance limit at 39.22% and 25.72%, respectively. In accordance with the validation guidelines, the results for Chloroethane and 1,2-Dichloroethane in the above sample have been qualified as estimated, and flagged `J'.

The continuing calibration reported for instrument H on 07/29/95 was associated with samples CAN113-B323-1024, CAN113-B323-1035, CAN113-B323-1045, and CAN113-B323-1054. Sample CAN113-B323-1054 was analyzed for the Appendix IX list, the other three were analyzed for the COI list. The RRFs for the COI compounds were within the validation criteria, but the RRF for 1,4-Dioxane reported on the Appendix IX list was less than 0.05, reported at 0.02448. As discussed above, although the RRF for 1,4-dioxane is less than 0.05, it is the judgment of the data reviewer that the instrument is capable of quantitating 1,4-dioxane at the reporting limit and, therefore, no qualification or rejection of the 1,4-dioxane data based on the RF is necessary. The %Ds for three compounds, Bromomethane, 1,2-Dichloroethane, and Carbon Tetrachloride, were reported above the 25%D acceptance limit at 32.22%, 25.88%, and 27.47%, respectively. In accordance with the validation guidelines, the sample results for the four associated samples for Chloroethane, 1,2-Dichloroethane, and Carbon Tetrachloride have been qualified as estimated, and flagged `J'.

The continuing calibration reported for instrument J on 07/29/95 was associated with the following ten samples:

CAN113-B322-1045	CAN113-B322-1056	CAN113-B325-1000
CAN113-B325-1024	CAN113-B325-1030	CAN113-B325-1040
CAN113-B325-1050	CAN113-B325-1060	CAN113-B322-1000
CAN113-B323-1019		

Samples CAN113-B322-1056 and CAN113-B325-1060 were analyzed for the Appendix IX list, the other seven samples were analyzed for the COI list. The RRFs for the COI compounds were within the validation criteria, but the RRFs for 1,4-Dioxane, Acetonitrile, and Isobutanol, reported on the Appendix IX list, were less than 0.05 acceptance limit, reported at 0.01548, 0.04052, and 0.02215, respectively. Although the RRFs for 1,4-dioxane, acetonitrile and isobutanol are less than 0.05, it is the judgment of the data reviewer that the instrument is capable of quantitating these analytes at their respective reporting limits and, therefore, no qualification or rejection of the data for these analytes based on the RRFs are necessary.

The %Ds for the following eight compounds were reported above the 25%D acceptance limit:

Bromomethane	30.80%D
Chloroethane	32.33%D
Acetonitrile	32.49%D
Propionitrile	44.80%D
Methacrylonitrile	30.50%D
Isobutanol	62.21%D
1,2-Dibromo-3-chloropropane	52.91%D
Methyl Methacrylate	32.23%D

Bromomethane and chloroethane are reported on both the COI and Appendix IX lists, and in accordance with the validation guidelines, the sample results for all ten associated samples for bromomethane and chloroethane have been qualified as estimated, and flagged 'J'. The sample results for the Appendix IX compounds propionitrile, methacrylonitrile, methyl methacrylate and

1,2-dibromo-3-chloropropane associated with samples CAN113-B322-1056 and CAN113-B325-1060 have been qualified as estimated, and flagged 'J', in accordance with the validation guidelines.

For acetonitrile and isobutanol, the instrument sensitivity decreased from the initial to the continuing calibration and the %Ds between the initial and continuing calibration were 32 and 62%, respectively, exceeding the criterion of 25%. It is the judgment of the data reviewer that the reporting limits do not sufficiently reflect the decrease in sensitivity of the analytical method to these analytes and, therefore, the reporting limits for acetonitrile and isobutanol for samples CAN113-B322-1056 and CAN113-B325-1060 have been raised proportionately to the decrease in sensitivity to 310 ug/Kg and 560 ug/Kg, respectively, and qualified as estimated (UJ).

Method Blanks

Method blank contamination was evaluated by reviewing the method blank result form(s) as well as the QC lot assignment report which details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration, or ten times the blank concentration if the analyte is a common laboratory contaminant.

One method blank was associated with each of the three continuing calibrations. With the exception of the method blank associated with the continuing calibration for instrument H on 07/28/95, all target compounds in the method blanks were reported as non-detect, and no qualification of data was necessary.

In the method blank associated with instrument H on 07/28/95 methylene chloride was reported as detected at 3.7 ug/Kg. Samples CAN113-B322-1018 and CAN113-B322-1035 had methylene chloride reported as present at concentrations below the reporting limit. In accordance with the validation guidelines, the methylene chloride results for samples CAN113-B322-1018 and CAN113-B322-1035 have been qualified as non-detect at the reporting limit value.

System Monitoring Compound (Surrogate) Spike Recovery

Surrogate recoveries for each sample were evaluated by reviewing the recoveries listed on the sample result forms against the criteria listed in the table below.

	PERCENT RECOVERY	
Surrogate Compound	**Water**	**Soil/Sediment**
1,2-Dichloroethane-d4	76-114	70-121
Toluene-d8	88-110	81-117
4-Bromofluorobenzene	86-115	75-121

System Monitoring Compound (SMC) recoveries were reported within acceptance limits for all analyses. The raw data were checked to verify the reported recoveries and for transcription errors, and approximately 5% of the values were recalculated. No errors were identified and no qualification of data on the basis of system monitoring compound recovery was necessary.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD summary forms were reviewed. MS/MSD recoveries and RPD limits are listed below. If MS/MSD recoveries or RPDs were outside of these limits, the surrogate recoveries for the sample, the MS and the MSD, the associated DCS recoveries and RPDs and the associated SCS recoveries were also evaluated to help determine if the MS/MSD outliers were due to matrix effects.

	PERCENT RECOVERY		RPD	
Analyte	**Water**	**Soil**	**Water**	**Soil**
1,1-Dichloroethene	1-234	1-234	17	20
Trichloroethene	71-157	71-157	13	12
Benzene	37-151	37-151	12	10
Toluene	47-150	47-150	11	12
Chlorobenzene	37-160	37-160	14	12

Four MS/MSD analyses were associated with samples from this data package. Two of the MS/MSD analyses, on samples CAN113-B301-1000 and CAN113-B308-1055, have been reported and discussed in other data review packages and are associated with the surface soil samples and Appendix IX analyses, respectively. Samples CAN113-B322-1035 and CAN113-B325-1030 were the MS/MSD analyses reported in this data package and are associated with the soil boring samples reported in this data package.

For samples CAN113-B322-1035 and CAN113-B325-1030 reported in this data package, the MS/MSD percent recoveries and relative percent differences were reported within acceptance limits for all analyses. The raw data were checked to verify the reported recoveries and for transcription errors, and approximately 10% of the values were recalculated. No errors were identified and no qualification of data on the basis of MS/MSD analyses was necessary.

No problems were reported for the MS/MSD analyses on samples CAN113-B301-1000 and CAN113-B308-1055 reported in data packages #043782 and #043608, respectively, and no qualification of data on the basis of MS/MSD analyses was necessary.

Laboratory Control Samples

Two types of laboratory control samples (LCS) were analyzed and reported: single control samples (SCS) and duplicate control samples (DCS). Analysis of an SCS and DCS was associated with each of the continuing calibrations.

SCS summary reports and QC lot assignment reports were reviewed. Surrogate recoveries were reported for each SCS on these forms. SCS surrogate recovery limits are listed in the table below.

	PERCENT RECOVERY	
Surrogate Compound	**Water**	**Soil/Sediment**
1,2-Dichloroethane-d4	85-111	82-112
Toluene-d8	91-110	90-112
4-Bromofluorobenzene	86-110	84-109

DCS summary reports and QC lot assignment reports were reviewed. DCS recovery and RPD limits are listed in the table below.

	PERCENT RECOVERY		RPD	
Analyte	**Water**	**Soil**	**Water**	**Soil**
1,1-Dichloroethene	77-174	65-137	17	20
Trichloroethene	77-119	83-118	13	12
Benzene	80-117	80-119	12	10
Toluene	80-119	80-119	11	12
Chlorobenzene	81-120	80-119	14	12

The SCS and DCS percent recoveries and relative percent differences were reported within acceptance limits for all analyses. The raw data were checked to verify the reported recoveries and for transcription errors, and approximately 10% of the values were recalculated. No errors were identified and no qualification of data on the basis of SCS and DCS analyses was necessary.

Field Duplicate Evaluation

Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit.

Four field duplicate sample pairs are associated with samples reported in this data package, however the samples are reported and reviewed in other data packages. Field duplicate pair CAN113-B310-0565/1000 is associated with surface soil samples, field duplicate pair CAN113-B317-0562/1059 is associated with Appendix IX analyses, field duplicate pair CAN113-B326-0567/1021 is associated with soil boring samples from boreholes B322 and B325, and field duplicate pair CAN113-B330-0568/1030 is associated with soil boring samples from borehole B323. All the field duplicate pairs were within the DCQAP acceptance limits, with the exception of acetone for the field duplicate pair CAN113-B326-0567/1021. The acetone results were 120

mg/Kg for the sample and 3.4 mg/Kg for its duplicate. This exceeds the 3X reporting limit acceptance criteria and the associated samples have been qualified as estimated, and flagged 'J/UJ'. The following eight samples were associated with the field duplicate pair CAN113-B326-0567/1021:

CAN113-B322-1018	CAN113-B322-1025	CAN113-B322-1035
CAN113-B322-1045	CAN113-B325-1024	CAN113-B325-1030
CAN113-B325-1040	CAN113-B325-1050	

No other qualification of data on the basis of field duplicate analyses was necessary.

Internal Standard Performance

The internal summary forms and raw data were reviewed to verify the internal standard retention times and areas reported on the summary forms. The internal standard area counts must not vary by more than a factor of two (-50% to +100%) from the associated 12-hour continuing calibration and the retention time of the internal standards must not vary more than ±30 seconds from the retention time of the associated 12-hour continuing calibration.

Raw data were checked to verify the internal standard retention times and areas for 50% of the total values. All the retention times and internal standard (IS) areas satisfied the criteria and no qualification of data on the basis of internal standard performance was necessary.

Target Compound Identification

Relative retention times (RRTs) and sample and laboratory spectra are required to be checked from the raw data. Sample compound RRTs are required to be reported within ±0.006 RRT units of the standard RRT, and the sample mass spectra is required to match the standard spectra for the identified compound.

The raw data for compounds reported as present in the sample were reviewed and all target compound identifications met the RRT criteria and were supported by the accompanying mass spectral data.

Target Compound Quantitation

A target compound quantitation check was conducted on compounds reported as present in the samples in this data package. Raw data were reviewed to compare quantitation lists and chromatograms to the positive sample results and quantitation limits. The raw data were also reviewed to verify that the correct internal standard, quantitation ion, and RRF were used to quantitative the compound, and that the same internal standard, quantitation ion, and RRF were used consistently throughout, in both the calibration as well as the quantitation process. No problems were identified and no changes to the reporting of positive sample data was required.

Results reported below the reporting limit were qualified as estimated and flagged 'J'.

Tentatively Identified Compounds

The validation for volatile tentatively identified compounds (TICs) included an evaluation of the following criteria as described in EPA's National Functional Guidelines for Organic Data Review, February 1994:

- Major ions (i.e., grater than 10% relative intensity) present in the reference spectrum were checked for presence in the sample spectrum. Major ions present in the sample spectrum were also checked for presence or absence in the reference spectrum.

- The relative intensities of the major ions were checked for agreement within ± 20% between the sample and reference spectra.

- Blank chromatograms were examined to verify that TIC peaks present in samples were not present in the blanks.

- The laboratory identification of TICs not present in associated blanks but identified as reagent contaminants, solvent preservatives, aldol condensation products or other common laboratory artifacts/contaminants were reviewed and qualified as unusable (R).

As specified in the DCQAP, reported TICs considered potentially to contribute significantly to an unacceptable risk underwent a more detailed validation process than that specified in Functional Guidelines to evaluate with a greater degree of confidence whether the compounds were present or absent in the sample. The additional validation process included a review of such items as:

- Expected chemical fragmentation patterns
- Boiling points versus retention times
- Peak shape for a TIC in the total ion chromatogram
- Comparison of retention time (RT) with RT of other TICs with good spectral match

Other reported TICs were not reviewed in more detail than specified in Functional Guidelines.

Volatile TICs were reported in six of the samples in data package #043617. The results for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B322-1025, CAN113-B322-1056, CAN113-B323-1024, CAN113-B323-1035, CAN113-B323-1045, and CAN113-B323-1054 were qualified as unusable (R). All other reported TIC identifications were considered acceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

Completeness

The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes for all samples.
- Presence of COCs; case narrative detailing the problems in the data package, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.

- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables were found to be complete, with the exception of the continuing calibration data for Instrument J which was provided by the laboratory upon request.

Overall Assessment

The overall assessment of the data is that the data are suitable for use with the qualifications noted by the data validator, and with the exception of those data that have been rejected as usable for any purpose. The analytical system was in control, with the exceptions noted, and no anomalies were found. Quality assurance objectives were satisfied as determined by the quality parameters of accuracy, precision, representativeness, and completeness.

The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on SCS, DCS, surrogate and MS/MSD recoveries and DCS and MS/MSD RPDs, were met for all analytes. The accuracy and precision (as assessed by spike percent recoveries and relative percent difference between MS/MSD, SCS, and DCS analyses) were found to be within control limits according to the criteria established in the DCQAP. The completeness goal to be met for each set of samples is 90%, and is defined as the percentage of analytical results requested which are judged to be valid, including estimated "J" values, but excepting rejected values. The completeness for data package #043617 is 98.9%%, which satisfies the completeness goal.

2.2 SEMIVOLATILE ORGANIC ANALYSIS

Seventeen environmental samples were analyzed for semi-volatile organic compounds; fourteen samples were analyzed for the Chemicals of Interest (COI) list of compounds referenced in the DCQAP and the three bottom samples were analyzed for the Appendix IX list of semi-volatile compounds, plus any additional compounds making up the Chemicals of Interest list but not included as an Appendix IX analyte. Analysis of the samples was conducted by Method 8270, from SW-846, Test Methods for Evaluating Solid Waste, (1986 and Final Update I, 1993).

Validation of the analytical data followed the guidelines from SOP No. 10 and, in accordance with SOP No. 10, also followed the applicable guidelines from USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, February 1994).

Holding Times

Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the extraction date listed on the sample result form(s) and subtracting the extraction date from the date of analysis listed on the sample result form. For soil samples, the holding time limit for extraction for semivolatile organics is 14 days from the date of sample collection. The holding time limit for analysis is 40 days from sample extraction. All extractions were conducted within fourteen days of sample collection and analyses were performed within forty days of extraction. Therefore, the criteria for meeting holding times were satisfied and no qualification of data on the basis of holding times was necessary.

Instrument Performance (GC/MS Tuning)

The instrument performance summary sheets were reviewed to verify that the ion abundance criteria for decafluorotriphenyl phospine specified in the method were met and that the instrument performance check was performed at the beginning of each 12-hour period in which samples or standards were analyzed . The raw data were reviewed for transcription errors and to check that the mass assignments were correct.

GC/MS tuning data were complete and in compliance with the above criteria. All values were within acceptance criteria and no qualification of the data was necessary.

Initial Calibration

Three instruments, instruments S, T and V, were used to conduct the analysis of samples from this data package. Initial calibration data for the COI list of compounds were reported by instruments S and T and for the Appendix IX compounds by instrument V.

Review of the initial calibration summary sheets and of the instrument printouts indicated that the initial calibrations were performed using the required standards at five different concentrations. The initial calibration summary report was reviewed for relative response factors (RRFs) and percent relative standard deviation (%RSD). Approximately 10 percent of the RRFs and %RSDs reported on the summary report were recalculated from the instruments printout and no errors in calculation or transcription were found.

To satisfy validation criteria initial calibration relative response factors (RRFs) must be equal to or greater than 0.050, and the percent relative standard deviation (%RSD) must be ≤30%. To meet contractual requirements, excluding analytes that have a poor historic response, up to four analytes may fail to meet the maximum %RSD as long as they have RRFs that are greater than or equal to 0.010, and % RSDs of less than or equal to 40.0% before a new calibration is required.

The RRF's and %RSD's for all three initial calibrations met the validation criteria and no calculation or transcription errors were identified and no qualification of data was necessary on the basis of the initial calibrations.

Continuing Calibration

One continuing calibration was associated with each of the initial calibrations.

Review of the continuing calibration summary sheets and of the instrument printout indicated that the continuing calibrations were performed using the appropriate mid-range standard and within 12-hours of the associated instrument performance check. The continuing calibration summary report was reviewed for response factor (RF) and percent difference (%D) verification. The initial and continuing calibration summary reports were reviewed to verify that the continuing calibrations were associated with the appropriate initial calibration. Approximately 10 percent of the RFs and %Ds reported on the summary report were recalculated from the instruments printout and no errors in recalculation or transcription were found.

To satisfy validation criteria, continuing calibrations must be run at the beginning of each 12-hour analysis period, RRFs must be equal to or greater than 0.050, and the percent difference (%D) between initial calibration mean RRF and the continuing calibration RRF must be within ±25%.

To meet contractual requirements, up to four analytes, excluding those historically exhibiting poor response, may fail to meet the maximum %D as long as they have RRFs that are greater than or equal to 0.010, and %D of less than or equal to 40.0% before a new calibration is required.

The continuing calibration frequency criterion was satisfied throughout the calibrations, and all RRFs were reported greater than 0.050. However, for the continuing calibrations on instruments S and V some analytes did not satisfy the control criterion of a maximum percent difference (%D) of 25.0% between the mean RRF from the initial calibration and the RRF in the continuing calibration.

For the continuing calibration on instrument S, the %D for N-Nitrosodimethylamine was reported at 25.5%. In accordance with the validation criteria, the N-Nitrosodimethylamine results for the associated samples have been qualified as estimated, and flagged `J'. The following six samples were associated with this continuing calibration:

CAN113-B325-1000	CAN113-B325-01024	CAN113-B325-1030
CAN113-B325-1040	CAN113-B325-01050	CAN113-B322-1000

For the continuing calibration on instrument V, the %Ds for nine compounds were above the limit of 25%D and in accordance with the validation criteria, the associated sample results for the nine compounds have been qualified as estimated, and flagged `J'. The three samples, CAN113-B322-1056, CAN113-B325-1060, and CAN113-B323-1054, associated with this continuing calibration were all analyzed and reported for the Appendix IX list. The %D was outside the validation criteria for the following nine compounds :

bis(2-Chloroisopropyl) ether	26.2%D	2-Nitrophenol	25.8%D
Hexachlorobutadiene	28.2%D	Hexachloropentadiene	26.1%D
3-Nitroaniline	38.3%D	Fluorene	25.7%D
4-Chlorophenyl-phenylether	40.0%D	Butylbenzylphthalate	35.2%D
bis(2-ethylhexyl)Phthalate	33.3%D		

Method Blanks

Method blank contamination was evaluated by reviewing the method blank result form(s) as well as the QC lot assignment report which details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration, or ten times the blank concentration if the analyte is a common laboratory contaminant.

One method blank was associated with each of the three continuing calibrations. With the exception of the method blank associated with the continuing calibration for instrument T on 08/09/95 all target compounds in the method blanks were reported as non-detect, and no qualification of data was necessary.

In the method blank associated with instrument T on 08/09/95 di-N-butyl phthalate was reported as detected at 180 ug/Kg. Eight samples were associated with this method blank.. Di-N-butyl phthalate was reported as present in six of the associated samples at values below the reporting limit. In accordance with the validation criteria, the di-N-butyl phthalate result reported for the following six samples has been qualified as non-detect at the reporting limit:

CAN113-B322-1018	CAN113-B322-1025	CAN113-B322-1035
CAN113-B322-1045	CAN113-B323-1019	CAN113-B323-1035

System Monitoring Compound (Surrogate) Spike Recovery

Surrogate recoveries for each sample were evaluated by reviewing the recoveries listed on the sample result forms against the criteria listed in the table below

Surrogate Compound	Percent Recovery Water	Soil/Sediment
2-Fluorobiphenyl	43-116	30-115
Nitrobenzene-d5	35-114	23-120
Terphenyl-d14	33-141	18-137
2-Fluorophenol	21-100	25-121
Phenol-d5	54-105	24-113
2,4,6-Tribromophenol	10-123	19-122

System Monitoring Compound (SMC) recoveries were reported within acceptance limits for all analyses. The raw data were checked to verify the reported recoveries and for transcription errors, and approximately 5% of the values were recalculated. No errors were identified and no qualification of data on the basis of system monitoring compound recovery was necessary.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD summary forms were reviewed. MS/MSD recoveries and RPD limits are listed below. If MS/MSD recoveries or RPDs were outside of these limits, the surrogate recoveries for the sample, the MS and the MSD, the associated DCS recoveries and RPDs and the associated SCS recoveries were also evaluated to help determine if the MS/MSD outliers were due to matrix effects.

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
Phenol	5-112	5-112	29	19
2-Chlorophenol	23-134	23-134	19	17
1,4-Dichlorobenzene	20-124	20-124	28	22
N-Nitroso-di-n-propylamine	1-230	1-230	24	18
1,2,4-Trichlorobenzene	44-142	44-142	27	24
4-Chloro-3-methylphenol	22-127	22-127	27	16
Acenaphthene	47-145	47-145	24	15
4-Nitrophenol	1-132	1-132	51	22
2,4-Dinitrotoluene	39-139	39-139	22	17
Pentachlorophenol	14-176	14-176	34	29
Pyrene	52-115	52-115	23	20

Four MS/MSD analyses were associated with samples from this data package. Two of the MS/MSD analyses, on samples CAN113-B301-1000 and CAN113-B308-1055, have been reported and discussed in other data review packages and are associated with the surface soil samples and Appendix IX analyses, respectively. Samples CAN113-B322-1035 and CAN113-B325-1030 were the MS/MSD analyses reported in this data package and are associated with the soil boring samples reported in this data package.

For samples CAN113-B322-1035 and CAN113-B325-1030 reported in this data package, the MS/MSD percent recoveries and relative percent differences were reported within acceptance limits for all analyses. The raw data were checked to verify the reported recoveries and for transcription errors, and approximately 10% of the values were recalculated. No errors were identified and no qualification of data on the basis of MS/MSD analyses was necessary.

No problems were reported for the MS/MSD analyses on samples CAN113-B301-1000 and CAN113-B308-1055 reported in data packages #043782 and #043608, respectively, with the exception of 2,4-Dinitrotoluene for the MS/MSD analyses on CAN113-B308-1055. The percent recoveries for 2,4-Dinitrotoluene for the MS/MSD analyses on CAN113-B308-1055 were reported below the 39-139% acceptance limits at 38% and 37%, respectively. Samples CAN113-B322-1056, CAN113-B325-1060, and CAN113-B323-1054 were associated with this MS/MSD

analysis. Since the recoveries were just below the acceptance limits and all the associated QA/QC were within acceptance limits, no qualification of data on the basis of the MS/MSD analyses was considered necessary.

Laboratory Control Samples

Two types of laboratory control samples (LCS) were analyzed and reported: single control samples (SCS) and duplicate control samples (DCS). Analysis of an SCS and DCS was associated with each of the continuing calibrations.

SCS summary reports and QC lot assignment reports were reviewed. Surrogate recoveries were reported for each SCS on these forms. SCS surrogate recovery limits are listed in the table below.

	Percent Recovery	
Surrogate Compound	**Water**	**Soil/Sediment**
2-Fluorobiphenyl	43-104	61-114
Nitrobenzene-d5	49-113	62-110
Terphenyl-d14	33-139	49-137
2-Fluorophenol	42-100	60-115
Phenol-d5	54-105	61-111
2,4,6-Tribromophenol	33-123	44-110

DCS summary reports and QC lot assignment reports were reviewed. DCS recovery and RPD limits are listed in the table below.

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
Phenol	45-109	45-107	29	19
2-Chlorophenol	47-111	46-112	29	17
1,4-Dichlorobenzene	32-103	58-101	28	22
N-Nitroso-di-n-propylamine	49-107	58-101	24	18
1,2,4-Trichlorobenzene	44-102	59-103	27	24
4-Chloro-3-methylphenol	50-115	41-123	27	16
Acenaphthene	47-109	54-110	24	15
4-Nitrophenol	40-127	30-132	51	22
2,4-Dinitrotoluene	46-118	51-117	22	17
Pentachlorophenol	30-136	32-130	34	29
Pyrene	52-115	52-115	23	20

The SCS and DCS percent recoveries and relative percent differences were reported within acceptance limits for all analyses. The raw data were checked to verify the reported recoveries and for transcription errors, and approximately 10% of the values were recalculated. No errors were identified and no qualification of data on the basis of SCS and DCS analyses was necessary.

Field Duplicate Evaluation

Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit.

Four field duplicate sample pairs are associated with samples reported in this data package, however the samples are reported and reviewed in other data packages. Field duplicate pair CAN113-B310-0565/1000 is associated with surface soil samples, field duplicate pair CAN113-B317-0562/1059 is associated with Appendix IX analyses, field duplicate pair CAN113-B326-0567/1021 is associated with soil boring samples from boreholes B322 and B325, and field

duplicate pair CAN113-B330-0568/1030 is associated with soil boring samples from borehole B323. All the field duplicate pairs were within the DCQAP acceptance limits, and no qualification of data on the basis of field duplicate analyses was necessary.

Internal Standard Performance

The internal summary forms and raw data were reviewed to verify the internal standard retention times and areas reported on the summary forms. The internal standard area counts must not vary by more than a factor of two (-50% to +100%) from the associated 12-hour continuing calibration and the retention time of the internal standards must not vary more than ±30 seconds from the retention time of the associated 12-hour continuing calibration.

Raw data were checked to verify the internal standard retention times and areas reported for approximately 50% of the total values. All the retention times and internal standard (IS) areas satisfied the criteria and no qualification of data on the basis of internal standard performance was necessary.

Target Compound Identification

Relative retention times (RRTs) and sample and laboratory spectra are required to be checked from the raw data. Sample compound RRTs are required to be reported within ±0.006 RRT units of the standard RRT, and the sample mass spectra is required to match the standard spectra for the identified compound.

The raw data for compounds reported as present in the sample were reviewed and all target compound identifications met the RRT criteria and were supported by the accompanying mass spectral data.

Target Compound Quantitation

A target compound quantitation check was conducted on compounds reported as present in the samples in this data package. Raw data were reviewed to compare quantitation lists and chromatograms to the positive sample results and quantitation limits. The raw data were also

reviewed to verify that the correct internal standard, quantitation ion, and RRF were used to quantitate the compound, and that the same internal standard, quantitation ion, and RRF were used consistently throughout, in both the calibration as well as the quantitation process. No problems were identified and no changes to the reporting of positive sample data was required.

Results reported below the reporting limit were qualified as estimated and flagged 'J'.

Tentatively Identified Compounds

The validation for semivolatile tentatively identified compounds (TICs) included an evaluation of the following criteria as described in EPA's National Functional Guidelines for Organic Data Review, February 1994:

- Major ions (i.e., grater than 10% relative intensity) present in the reference spectrum were checked for presence in the sample spectrum. Major ions present in the sample spectrum were also checked for presence or absence in the reference spectrum.

- The relative intensities of the major ions were checked for agreement within ± 20% between the sample and reference spectra.

- Blank chromatograms were examined to verify that TIC peaks present in samples were not present in the blanks.

- The laboratory identification of TICs not present in associated blanks but identified as reagent contaminants, solvent preservatives, aldol condensation products or other common laboratory artifacts/contaminants were reviewed and qualified as unusable (R).

As specified in the DCQAP, reported TICs considered potentially to contribute significantly to an unacceptable risk underwent a more detailed validation process than that specified in Functional Guidelines to evaluate with a greater degree of confidence whether the compounds

were present or absent in the sample. The additional validation process included a review of such items as:

- Expected chemical fragmentation patterns
- Boiling points versus retention times
- Peak shape for a TIC in the total ion chromatogram
- Comparison of retention time (RT) with RT of other TICs with good spectral match

Other reported TICs were not reviewed in more detail than specified in Functional Guidelines.

Semivolatile TICs were reported in 12 of the samples in data package #043617. The results reported for three siloxanes (common laboratory artifact) in sample CAN113-B322-1035 were qualified as unusable (R). All other reported TIC identifications were considered acceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

Overall Assessment

The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

The overall assessment of the data is that the data are suitable for use with the qualifications noted by the data validator. The analytical system was in control, with the exceptions noted, and no anomalies were found. Quality assurance objectives were satisfied as determined by the quality parameters of accuracy, precision, representativeness, and completeness.

The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on SCS, DCS, surrogate and MS/MSD recoveries and DCS and MS/MSD RPDs, were met for all analytes. The results of this evaluation are contained in the QC Review reports.

The accuracy and precision (as assessed by spike percent recoveries and relative percent difference between MS/MSD, SCS, and DCS analyses) were found to be within control limits according to the criteria established in the DCQAP. The completeness goal to be met for each set of samples is 90%, and is defined as the percentage of analytical results requested which are judged to be valid, including estimated "J" values. The completeness for data package #043617 is 100%%, which satisfies the completeness goal.

2.3 ORGANOCHLORINE PESTICIDES/PCBs ANALYSIS

Data package 043617 contained pesticides/PCBs data for seventeen soil samples. The Appendix IX list of analytes was requested for the three bottom samples in this data package. The Appendix IX list contains the Method 8080 analyte list and five additional analytes. The results of the review are presented below.

Overall Assessment - The pesticides/PCBs data are considered to be usable for meeting project objectives without qualification. All recoveries for laboratory control samples and matrix spike samples and all duplicate analyses satisfied the accuracy and precision QA objectives specified in the DCQAP demonstrating that acceptable accuracy and precision were achieved. As such, the analytical completeness for the pesticides/PCBs analyses is 100 percent [(457-0)/457*100%].

Case Narrative - The case narrative indicated that no problems were encountered during the pesticides/PCBs analyses performed on these samples.

Holding Times - Extraction holding times were calculated by subtracting the sample extraction dates on the preparation log from the sample collection dates specified on the COCs. Analysis holding times were calculated by subtracting the sample analysis dates from the sample extraction dates, both found on the preparation logs. All samples were extracted within 14 days of collection and were analyzed within 40 days of extraction satisfying the holding time criteria specified in Table 4-2 of the DCQAP. Data qualification on the basis of holding times was not necessary.

Calibration - To evaluate the initial calibration, the initial calibration summary sheets and instrument printouts (quantitation reports and chromatograms) were reviewed. The initial calibration summary sheets indicated that the external standard method of calibration was used. The calibration sequence consisted of analyzing the following standards in the following order: an evaluation mixture to determine the percent breakdown of Endrin and DDT, five concentration levels of a standard containing all of the single component pesticides and alpha- and gamma-chlordane, a technical chlordane standard, a Toxaphene standard, a standard of each Aroclor, and a standard containing the Appendix IX analytes not included in the target analyte list for Method 8080.

The laboratory analyzed the initial calibration data with a $1/x^2$ - weighted linear regression and sample results were calculated from the calibration line. The analyte responses reported on the initial calibration quantitation reports for three analytes on each column were entered into a spreadsheet to verify the initial calibration data reported by the laboratory. For all analytes tested, the correlation coefficients obtained for the $1/x^2$ - weighted linear regressions were greater than 0.995, indicating sufficient linearity. Data qualification on the basis of initial calibration was not necessary.

To evaluate continuing calibration, the continuing calibration summary sheets and instrument printouts were reviewed. For all four continuing calibration verification analyses, the retention times of all analytes were within 0.04 minutes of the expected retention times as determined from the mid-concentration level initial calibration standard. For the first of the four single component

calibration verification analyses, the percent differences (%Ds) between the true concentration and the measured concentration results were less than 15 percent, the laboratory acceptance limit which parallels the Method 8080 requirement that the %D between the average calibration factor determined from the initial calibration and the calibration factor determined by the continuing calibration be less than 15 percent. The spreadsheet used for analyzing the initial calibration data was also used to verify reported concentrations for the continuing calibration analyses. No errors in measured concentrations were found (concentrations calculated from the $1/x^2$ - weighted linear regression line). No Aroclors, Toxaphene, technical chlordane, or Appendix IX analytes were identified in the samples and as such confirmation standard analyses were not performed. The analytical sequence was reviewed and found to be acceptable.

For the continuing calibration analysis on 08-13-95 at 07:33, the %D for one analyte exceeded the 15 percent acceptance limit. The %D between the true and measured concentrations of methoxychlor on Channel 42 was 20 percent. Data qualification of associated samples was not considered to be necessary because the measured concentration of methoxychlor in the continuing calibration verification sample was greater than the true concentration indicating that the potential bias in sample results was high and methoxychlor was not identified as present in any of the associated samples. In addition, evaluation of the chromatograms and quantitation reports of the associated samples indicated that no errors in methoxychlor identification were made.

For the continuing calibration analysis on 08-13-95 at 14:26, the %D for 12 analytes exceeded the 15 percent acceptance limit as the table below illustrates.

Analyte	%D
alpha-BHC	21
beta-BHC	19
delta-BHC	26
gamma-BHC	23
Heptachlor epoxide	18
DDE	20
Dieldrin	19
Endrin	18
Endosulfan II	17
DDD	17
DDT	21
Methoxychlor	16

Data qualification of associated sample data was not considered to be necessary because the measured concentrations of these analytes in the continuing calibration verification sample were greater than the true concentrations indicating that the potential bias in sample results was high and these analytes were not identified as present in any of the associated samples. In addition, evaluation of the chromatograms and quantitation reports of the associated samples indicated that no errors in target analyte identification were made.

For the concluding continuing calibration analysis on 08-13-95 at 18:27, the %D for 7 analytes exceeded the 15 percent acceptance limit as the table below illustrates.

Analyte	%D
alpha-BHC	18
beta-BHC	17
delta-BHC	23
gamma-BHC	20
Dieldrin	16
DDT	20
Methoxychlor	18

Data qualification of associated sample data was not considered to be necessary because the measured concentrations of these analytes in the continuing calibration verification sample were greater than the true concentrations indicating that the potential bias in sample results was high and these analytes were not identified as present in any of the associated samples. In addition, evaluation of the chromatograms and quantitation reports of the associated samples indicated that no errors in target analyte identification were made.

Method Blank - Method blank contamination was evaluated by reviewing the method blank reporting forms, raw method blank sample data, and QC Lot assignments designated on the preparation logs. A method blank and associated samples share a unique QC Lot number. Results for any analytes reported as detected in samples which was also reported as detected in an associated blank were qualified as nondetect if the sample concentration was less than 5 times the blank concentration.

There was one method blank associated with the preparation and analysis of these samples. No target compounds were detected in the method blank and data qualification was not required.

Laboratory Control Sample (LCS) Analysis - The DCS reporting forms, summary forms found in the raw data, the DCS raw data (quantitation reports and chromatograms), and preparation logs were reviewed. The QC Lot number on the preparation logs were used to determine the association of DCSs with samples.

One duplicate control sample (DCS) pair was prepared with the samples in this data package. The recoveries of the spiked compounds in DCS1 and DCS2 and the relative percent differences

between the DCS1 and DCS2 results were within the DCQAP-specified acceptance limits (Table 2-3c) indicating that satisfactory accuracy and precision with respect to method performance on the general sample matrix (soil) was attained. Data qualification based on the LCS results was not required.

Surrogate Spike Compound Recovery - Three surrogate compounds were spiked into every field and QC sample prior to extraction. The surrogate recoveries listed in the raw data (on the form summarizing the results for both analytical columns) were compared to the surrogate recoveries reported on the sample reporting forms (Form I equivalent) and the spreadsheet used for analyzing the initial calibration data was also used to verify reported surrogate concentrations for several samples. No calculation or transcription errors were found.

The surrogate recoveries listed on the sample reporting forms were compared to the QA objectives specified in Table 2-2a of the DCQAP. The recoveries of surrogate compound Dibutylchlorendate in all samples were within the acceptance limits specified by the DCQAP. The DCQAP did not contain acceptance limits for the other two surrogate compounds, Tetrachloro-m-xylene (TCX) and Decachlorobiphenyl (DCB), however, the recoveries of TCX and DCB in all samples were within the laboratory's acceptance limits which were considered to be sufficiently stringent for generating data which meets project objectives. As all surrogate recoveries were within the DCQAP or laboratory's acceptance limits, the attainment of satisfactory accuracy with respect to the individual sample analyses is indicated.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis - There were four MS/MSD analyses associated with the samples in this data package; results for two were reported in separate data packages. The MS/MSD analysis on sample CAN113-B301-1000 is associated with the two surface soil samples in this data package and surface samples in other data packages. The MS/MSD analysis on sample CAN113-B308-1055 is associated with the three bottom samples in this data package and bottom samples in other data package. The MS/MSD analyses for samples CAN113-B322-1018 and CAN113-B325-1030 from this data package are associated with the other soil boring samples in this data package (see Table 2-1 for detailed associations) and in other data packages.

The MS/MSD results presented in the summary forms were compared to accuracy and precision QA objectives specified in Table 2-2b of the DCQAP. The raw MS/MSD data and sample preparation logs were reviewed to evaluate whether spike recoveries and RPDs were calculated properly.

Results for these MS/MSD analyses satisfied the evaluation criteria specified in the DCQAP indicating that satisfactory accuracy and precision with respect to site-specific sample matrix (Cannon LF-5 soils) was attained. Data qualification was not required.

Field Duplicate Result Agreement - There were four field duplicate samples pairs associated with the samples reported in this data package and their results were reported in separate data packages. Field duplicate sample pair CAN113-B310-0565/-1000 is associated with the two surface soil samples reported in this data package. Field duplicate sample pair CAN113-B307-0562/-1059 is associated with the three bottom samples reported in this data package. Field duplicate pairs CAN113-B326-0567/-1021 and CAN113-B330-0568/-1030, reported in this data package, were associated with the other soil boring samples reported in this data package and with soil boring samples reported in other data packages (see Table 2-1 for detailed associations).

Field duplicate results were evaluated by comparing the results for the sample to the results for its duplicate. For soil field duplicate results where both values were greater than 5 times the reporting limit, the RPD between the sample and duplicate results was compared to an evaluation criterion of 100%. For soil field duplicate results where one or both values reported were less than 5 times the reporting limit, the difference between the results was compared to a criterion of ± 3 times the reporting limit.

Results for all four field duplicate sample sets satisfied the above evaluation criteria and data qualification was not required.

Target Compound Identification, Quantitation, and Reporting Limits - A spreadsheet in which the $1/x^2$ - weighted linear regression was applied to the initial calibration data was used to verify reported concentrations. No errors were found in pesticide or PCB identification or quantitation. Retention times for analytes, reported as present were within 0.04 minutes of the expected retention times as determined from the initial calibration. The reporting limits obtained

satisfied the requirements of the DCQAP. Data qualification on the basis of target compound identification, quantitation, and reporting limits was not necessary. In addition, chromatographic performance remained satisfactory throughout sample analysis as baselines and peak shapes were satisfactory.

Completeness of the Data Package - The analytical data package was evaluated for completeness of deliverables against the following criteria;

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes determined to be not present.

- Presence of COCs, case narrative, and analytical results for all QC analyses including laboratory spikes, matrix spikes, laboratory duplicates, matrix spike duplicates, blanks, and initial calibration and continuing calibration analyses.

- Raw data system printouts (summary forms, quantitation reports, and chromatograms) for all sample and QC sample analyses which include the date of analysis, analyst, parameters analyzed, and spike level.

- Presence of sample preparation/extraction logs, which include the QC samples and their spiking levels, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the laboratory.

2.4 METALS ANALYSIS

Data package 043617 contained metals data for seventeen soil samples. The Appendix IX list of analytes was requested for the three bottom samples in this data package. The Appendix IX list contains the Target Analyte List of metals and one additional metal, tin. The results of the review are presented below.

Overall Assessment - The metals data are considered to be usable for meeting project objectives with the qualifications noted below. Some data required qualification because the QA objectives for accuracy and precision specified by the DCQAP were not satisfied by all samples for all analytes, however, no data were considered to be unusable due to unacceptable analytical accuracy and precision. As such, the analytical completeness for the total metal analyses is 100 percent [(394-0)/394*100%].

Case Narrative - The information reported in the case narrative is summarized below.

- Samples CAN113-B322-1025, CAN113-B322-1035, CAN113-B325-1030, CAN113-B323-1019 and CAN113-B323-1035 were analyzed at a dilution in order to quantitate calcium within the calibration range. For each sample, results for all analytes were reported from the diluted analysis.

- The reporting limit for selenium for all samples was elevated due to matrix interferences. No dilutions were required.

- The reporting limit for thallium for twelve of the seventeen samples in this data package was elevated due to matrix interferences. Of these twelve, samples CAN113-B322-1025, CAN113-B322-1056, and CAN113-B325-1030 required dilution and reporting limits were raised accordingly.

- The relative percent difference between the duplicate control samples was 22 percent, greater than the laboratory acceptance limit of 20 percent.

- The matrix spike and duplicate sample analyses results suggest sample inhomogeneity.

The analytical methods listed on the reporting forms for arsenic and mercury were Methods 7060 and 7471, respectively, however, the current SW-846 promulgated methods are 7060A and 7471A, respectively. Communications with the laboratory (personal communication slc to T.C. 09/29/95) verified that Methods 7060A and 7471A were run, but that laboratory software has not been updated to report the correct method number on the reporting forms or in the electronic deliverable.

Holding Times - Analysis holding times were calculated by subtracting the sample analysis dates found on the run logs from the sample collection dates found on the COCs. All samples were analyzed within the holding time criteria specified in Table 4-2 of the DCQAP. Data qualification on the basis of holding times was not necessary.

Initial Calibration - Evaluation of initial calibration involved examination of the raw data generated by the individual instruments and laboratory bench sheets, if used, for the specific analyses. For the inductively-coupled plasma atomic emission spectroscopy analysis, the table of True Values for Calibration and QC Check Samples (Metals) was used to evaluate whether the results reported on the raw data printouts met method acceptance criteria. For the atomic absorption analyses, the initial calibration data were entered into a spreadsheet which utilized a linear regression function to analyze the data.

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopy - Two analytical sequences/runs were conducted for the ICP metals determinations. In both instances, the ICP instrument was calibrated with a blank and at least one standard. The initial calibration was followed by analysis of a standard with analyte concentrations two times the concentrations in the initial calibration verification standard. Analyte recoveries for this standard were within 95 to 105 percent of true values. The initial calibration performed is considered to be satisfactory for generating data of sufficient quality for meeting project objectives.

Graphite Furnace Atomic Absorption (GFAA) - The GFAA analytical technique was used to analyze for arsenic, lead, selenium, and thallium. For each analyte, a blank and three standards were used to generate the analytical curves. The linear regression correlation coefficients calculated by the reviewer (via the spreadsheet) for the arsenic, lead, and selenium initial calibrations were greater than 0.995, the acceptance limit specified in the Functional Guidelines, indicating sufficient linearity of instrument response. The linear regression correlation coefficient calculated by the reviewer (via a spreadsheet) for the thallium initial calibration was 0.989, however, data qualification was not considered to be necessary as the instrument uses an internal algorithm to calculate results from the calibration curve and not a calibration line. Following the initial calibration and prior to the initial calibration verification, a standard containing analytes at concentrations near the detection limit was analyzed. Recoveries were between 90 and 110

percent. The initial calibrations performed are considered to be satisfactory for generating data of sufficient quality for meeting project objectives.

Cold Vapor Atomic Absorption - A blank and four standards were used to generate the analytical curve. The linear regression correlation coefficient calculated by the reviewer (via a spreadsheet) was greater than 0.995, indicating sufficient linearity of instrument response. The initial calibration performed is considered to be satisfactory for generating data of sufficient quality for meeting project objectives.

Initial and Continuing Calibration Verification - Evaluation of initial and continuing calibration verification involved examination of the raw data generated by the individual instruments and laboratory bench sheets, if used, for the specific analyses. For the inductively-coupled plasma atomic emission spectroscopy analysis, the table of True Values for Calibration and QC Check Samples (Metals) was used to evaluate whether the results reported on the raw data printouts met method acceptance criteria. For the atomic absorption analyses, a spreadsheet utilizing a linear regression function was used to estimate reported results for verification analyses (as the instrument calculates results from a calibration curve, results calculated from the linear regression line may not be exactly the same as those reported by the instrument).

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopy - The analytical sequence was preceded by an initial calibration verification standard and continuing calibration verification standards were run after every 10 samples. As there were no forms summarizing the calibration data, the data reviewer used the raw data printouts and the table of True Values for Calibration and QC Samples provided by the laboratory to calculate the percent recovery of each analyte in each calibration verification standard. All recoveries were within 90 to 110 percent, the acceptance limits specified in the Functional Guidelines. The calibration verifications performed are considered to be satisfactory for generating data of sufficient quality for meeting project objectives.

Graphite Furnace Atomic Absorption (GFAA) - The analytical sequence was preceded by an initial calibration verification standard and continuing calibration verification standards were run after every 10 samples. The data reviewer verified that the information reported on the laboratory benchsheets (summary forms) agreed with the raw data printouts. The true values reported at the top of the benchsheets were used to verify reported recoveries for calibration verification analyses.

All recoveries were within 90 to 110 percent, the acceptance limits specified in the Functional Guidelines. No transcription or calculation errors were found. The calibration verifications performed are considered to be satisfactory for generating data of sufficient quality for meeting project objectives.

Cold Vapor Atomic Absorption - The analytical sequence was preceded by an initial calibration verification standard and a continuing calibration verification standard was run after every 10 samples. The data reviewer compared the raw data system printouts with the benchsheets and no discrepancies were found. The table of True Values for Calibration and QC Samples provided by the laboratory was used to verify that the percent recoveries reported on the benchsheets by the laboratory were correct. All recoveries were within 80 to 120 percent, the acceptance limits specified in the Functional Guidelines. No transcription or calculation errors were found. The calibration verifications performed are considered to be satisfactory for generating data of sufficient quality for meeting project objectives.

Blanks - Method blank contamination was evaluated by reviewing the method blank reporting forms, raw method blank sample data, and QC Lot assignments designated on the preparation logs. A method blank and associated samples share a unique QC Lot number. Results for any analytes reported as detected in samples which were also reported as detected in an associated blank were qualified as nondetect if the sample concentration was less than 5 times the blank concentration.

Two preparation blanks (method/reagent blanks) were prepared and analyzed with the samples in this data package. A calibration blank was analyzed following all calibration verification analyses. The raw data were used to verify that the results reported on the method blank reporting forms were correct. No errors in reporting were found. The raw data for the continuing calibration blanks were examined and results were compared to the method blank reporting limits to determine if analytes were present in the calibration blanks at detectable levels.

No target analytes were reported as detected in the calibration blanks or preparation blanks. However, negative chromium results for which the absolute value was greater than half of the reporting limit were reported in the one of the preparation blanks and two continuing calibration blanks.

The chromium result reported for the preparation blank associated with the first analytical run in package 043617 is -0.63 mg/kg and the wet weight chromium reporting limit for associated samples is 1.0 mg/kg such that there is a potential for a low bias in chromium results that are near the reporting limit. The chromium results for the fourteen associated samples were greater than 1.89 mg/kg, 3 times the absolute value of the blank chromium concentration, or reported as nondetect with a reporting limit greater than 1.89 mg/kg such that data qualification was not considered to be necessary.

The chromium result reported for the first continuing calibration blank of the first analytical sequence was -0.507 mg/kg and the wet weight chromium reporting limit for associated samples is 1.0 mg/kg such that there is a potential for a low bias in chromium results that are near the reporting limit. The chromium results for the six associated samples were greater than 1.52 mg/kg, 3 times the absolute value of the blank chromium concentration, such that data qualification was not considered to be necessary.

The chromium result reported for the second continuing calibration blank of the first analytical sequence was -0.579 mg/kg and the wet weight chromium reporting limit for associated samples is 1.0 mg/kg such that there is a potential for a low bias in chromium results that are near the reporting limit. The chromium results for the six associated samples were greater than 1.77 mg/kg, 3 times the absolute value of the blank chromium concentration, such that data qualification was not considered to be necessary.

Inductively-Coupled Plasma (ICP) Interference Check Sample (ICS) - Results reported in the raw data system printouts were compared to the true values presented in the table of True Values for Calibration and QC Check Samples provided by the laboratory.

For both analytical runs, recoveries for analytes present in ICS solutions A and AB, for both the initial and final analyses, were within ± 20 percent, the acceptance limit specified by the Functional Guidelines. Data qualification on the basis of the ICP ICS results was not considered to be necessary.

Laboratory Control Sample Analysis (LCS) - The laboratory prepared duplicate laboratory control samples (DCSs). A DCS is the preparation of two identical but individual LCSs which are

prepared and analyzed with a batch of samples and the results compared so that precision, as well as accuracy, can be assessed. Two DCS samples pairs were prepared with the samples reported in this sample delivery group.

Laboratory control sample analyses were evaluated by reviewing the DCS reporting forms, raw DCS sample data, and QC Lot assignments designated on the preparation logs. A DCS sample pair and its associated samples share a unique QC Lot number.

The raw data were reviewed to verify that the results reported on the DCS laboratory control sample reporting forms were correct. No errors in reporting were found. The recovery of all analytes in the two DCS1 samples and in the two DCS2 samples and the relative percent differences (RPDs) between the DCS1 and DCS2 results for one DCS pair were within the acceptance limits specified in Table 2-2c of the DCQAP indicating that satisfactory accuracy and precision with respect to method performance on the general sample matrix (soil) was achieved.

For one DCS pair, the RPD between the DCS1 and DCS2 tin results was 22 percent, exceeding the laboratory's acceptance limit of 20 percent. The DCQAP did not contain a RPD acceptance criterion for tin, however a 20 percent RPD criterion for all other metals was specified by the DCQAP. This DCS was associated with samples in QC Lot 08 AUG 95-SU. Samples CAN113-B323-1035, CAN113-B323-1045, and CAN113-B323-1054 were associated with this DCS sample pair, however, only sample CAN113-B323-1054 was analyzed for tin as the Appendix IX list of target analytes was not required for the other two samples. The tin result for sample CAN113-B323-1054 was qualified as estimated as the DCS results were indicative of unacceptable analytical precision for this analyte.

Duplicate Sample Analysis - Duplicate sample analyses are performed in order to assess analytical precision. A duplicate sample analysis was performed with additional portions of samples CAN113-B322-1035 and CAN113-B325-1030, reported in this data package. These QC analyses are associated with soil boring samples reported in this data package and in other data packages. The duplicate sample analysis performed on sample CAN113-B301-1000, reported in a separate data packages, is associated with the two surface soil samples reported in this data package, CAN113-B325-1000 and CAN113-B322-1000. The duplicate sample analysis performed on sample CAN113-B308-1055, reported in a separate data package, is associated with

the three bottom samples reported in this data package, CAN113-B322-1056, CAN113-B325-1060, and CAN113-B323-1054.

Duplicate sample analyses were evaluated by reviewing the duplicate sample reporting forms and raw sample data. No transcription errors between the raw data and reporting forms were found and no calculation errors of RPD were found. The duplicate sample analysis evaluation criteria applied are as follows: if both the original and duplicate sample results were greater than or equal to 5 times the reporting limit, satisfactory analytical precision was demonstrated if the RPD between the duplicate results was less than or equal to 20 percent, the acceptance limit presented in Table 2-2c of the DCQAP, and if the original or duplicate sample result was less than 5 times the reporting limit, satisfactory analytical precision was demonstrated if the results agreed within 2 times the reporting limit.

The acceptance criteria above were satisfied by all analytes for the duplicate sample analysis on surface soil sample CAN113-B301-1000. Data qualification for the associated samples, CAN113-B325-1000 and CAN113-B322-1000, was not required.

For the duplicate sample analysis on sample CAN113-B322-1035, results for two analytes did not satisfy the duplicate sample analysis evaluation criteria. The RPD between the original and duplicate results for barium and manganese were 40 and 24 percent, respectively, exceeding the applicable criterion of 20 percent. Consequently, barium and manganese results in associated samples (see Table 2-1 for complete list of associated samples) have been qualified as estimated in accordance with the Functional Guidelines. The associated samples from this data package are: CAN113-B322-1018, CAN113-B322-1025, CAN113-B322-1035, CAN113-B322-1045, CAN113-B323-1019, CAN113-B323-1024, CAN113-B323-1035, and CAN113-B323-1045.

For the duplicate sample analysis on sample CAN113-B325-1030, results for six analytes did not satisfy the duplicate sample analysis evaluation criteria as the table below illustrates.

Analyte	RPD
Chromium	not w/in 2x RL
Zinc	59
Nickel	32
Manganese	21
Iron	26
Lead	165

Consequently, results for these analytes results in associated samples (see Table 2-1 for complete list of associated samples) have been qualified as estimated in accordance with the Functional Guidelines. The associated samples from this data package: CAN113-B325-1024, CAN113-B325-1030, CAN113-B325-1040, and CAN113-B325-1050.

For bottom sample CAN113-B308-1055, a laboratory duplicate sample was not analyzed. However, a matrix spike and matrix spike duplicate sample set was analyzed. The laboratory duplicate evaluation criteria were satisfied by all analytes for the matrix spike/matrix spike duplicate sample analysis performed on bottom sample CAN113-B308-1055 and data qualification was not required. This matrix spike duplicate sample analysis is associated with samples CAN113-B322-1056, CAN113-B325-1060, and CAN113-B323-1054 reported this data package.

Spike Sample Analysis - Matrix spike analyses are performed in order to assess analytical accuracy with respect to the general sample matrix (e.g. soil samples from LF-5). A matrix spike sample analysis was performed with additional portions of samples CAN113-B322-1035 and CAN113-B325-1030 from this data package. These QC analyses are associated with soil boring samples reported in this data package and in other data packages. The matrix spike sample analysis performed on sample CAN113-B301-1000, reported in a separate data package, is associated with the two surface soil samples reported in this data package, CAN113-B325-1000 and CAN113-B322-1000. The matrix spike sample analysis performed on sample CAN113-B308-1055, reported in a separate data package, is associated with the three bottom samples reported in this data package, CAN113-B322-1056, CAN113-B325-1060, and CAN113-B323-1054.

Matrix spike sample analyses were evaluated by reviewing the matrix spike sample reporting forms and raw sample data. No transcription errors between the raw data and reporting forms were

found and no calculation errors of spike recoveries were found. Matrix spike recoveries were compared to the acceptance limits presented in Table 2-2c of the DCQAP.

For surface soil sample CAN113-B301-1000, the matrix spike recoveries for five analytes were outside the acceptance ranges specified in Table 2-2c of the DCQAP as the table below illustrates.

Analyte	RPD
Antimony	28
Barium	79
Manganese	144
Selenium	47

Consequently, positive results for manganese and positive and nondetect results for the other analytes listed in the table were qualified as estimated in associated samples (see Table 2-1 for complete list of associated samples) in accordance with the Functional Guidelines. The associated samples from this data package are: CAN113-B325-1000 and CAN113-B322-1000.

For soil boring sample CAN113-B322-1035, the matrix spike recoveries for antimony, selenium, and thallium were 134, 59, and 39 percent, respectively, outside the DCQAP acceptance criteria (Table 2-2c). Consequently, positive antimony results and positive and nondetect selenium and thallium results were qualified as estimated in associated samples (see Table 2-1 for complete list of associated samples) in accordance with the Functional Guidelines. The associated samples in this data package are: CAN113-B322-1018, CAN113-B322-1025, CAN113-B322-1035, CAN113-B322-1045, CAN113-B323-1019, CAN113-B323-1024, CAN113-B323-1035, and CAN113-B323-1045.

For soil boring sample CAN113-B325-1030, the matrix spike recoveries for seven analytes were outside the DCQAP acceptance ranges presented in Table 2-2c as the table below illustrates.

Analyte	% Recovery
Antimony	59
Magnesium	129
Nickel	76
Zinc	62
Selenium	61
Thallium	39
Lead	1060

Spiking levels were appropriate relative to sample concentrations. Consequently, positive results for magnesium and lead and positive and nondetect results for the other analytes listed in the table were qualified as estimated in associated samples (see Table 2-1 for complete list of associated samples) in accordance with the Functional Guidelines. The associated samples in this data package are: CAN113-B325-1024, CAN113-B325-1030, CAN113-B325-1040, and CAN113-B325-1050.

For the bottom sample CAN113-B308-1055, the matrix spike recoveries for three analytes were outside the acceptance ranges presented in Table 2-2c of the DCQAP as the table below illustrates.

Analyte	RPD
Antimony	62
Selenium	68
Thallium	24

Results for associated samples were qualified as follows: positive and nondetect results for antimony and selenium were qualified as estimated; positive thallium results were qualified as estimated; and nondetect thallium results were qualified as unusable due to the matrix spike recovery being below 30 percent (see Table 2-1 for complete list of associated samples) in accordance with the Functional Guidelines. The associated samples from this data package are: CAN113-B322-1056, CAN113-B325-1060, and CAN113-B323-1054.

Graphite Furnace Atomic Absorption (GFAA) QC - Arsenic, selenium, thallium, and lead results were obtained by the Graphite Furnace Atomic Absorption analytical technique. The raw data and benchsheets (summary sheets) were reviewed to evaluate the GFAA QC procedures.

All GFAA results were within the calibration range. Each sample was injected once. Post digestion spikes were performed on all samples immediately following analysis of the unspiked sample. Post-digestion spike concentrations were appropriate. The post-digestion spike recoveries for arsenic and lead for all samples reported in this data package were within the method acceptance range of 85-115 percent and data qualification was not required. The post-digestion spike recoveries for selenium and thallium for all samples reported in this data package were outside the method acceptance range of 85-115 percent. Consequently, all selenium and thallium results were qualified as estimated (however, thallium results for the three bottom samples were qualified as unusable due to a low matrix spike recovery and this qualification takes precedence).

ICP Serial Dilution - ICP serial dilution is recommended by Method 6010A, but not required. Serial dilution analyses were not performed by the laboratory for this project.

Field Duplicate Result Agreement - There were four field duplicate sample pairs associated with the samples reported in this data package and their results were reported in separate data packages. Field duplicate sample pair CAN113-B310-0565/-1000 is associated with the two surface soil samples in this data package. Field duplicate sample pair CAN113-B307-0562/-1059 is associated with the three bottom samples in this data package. Field duplicate pairs CAN113-B326-0567/-1021 and CAN113-B330-0568/-1030 were associated with the other soil boring samples in this data package (see Table 2-1 for detailed associations).

Field duplicate results were evaluated by comparing the results for the sample to the results for its duplicate. For soil field duplicate results where both values were greater than 5 times the reporting limit, the RPD between the sample and duplicate results was compared to an evaluation criterion of 100%. For soil field duplicate results where one or both values reported were less than 5 times the reporting limit, the difference between the results was compared to a criterion of ±3 times the reporting limit.

Results for all field duplicate samples satisfied the evaluation criteria specified in the DCQAP and data qualification was not required.

Verification/Quantitation - No errors in transcription or calculation were found. Reported results for metals determined by ICP are the average of two determinations.

Completeness of the Data Package - The analytical data package was evaluated for completeness of deliverables against the following criteria;

- Presence of tabulated results of metals identified and quantified and reporting limits for all analytes determined to be not present.

- Presence of COCs, case narrative, and analytical results for all QC analyses including laboratory spikes, matrix spikes, laboratory duplicates, matrix spike duplicates, blanks, and initial calibration and continuing calibration analyses.

- Presence of all raw data including data system printouts, benchsheets, instrument summary reports for all sample and QC sample analyses which include the date of analysis, analyst, parameters analyzed, and spike level.

- Presence of sample preparation/extraction logs, which include the QC samples and their spiking levels, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the laboratory.

2.5 TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH) ANALYSIS

Data package 043617 contained total recoverable petroleum hydrocarbons (TRPH) data for seventeen soil samples. The results of the review are presented below.

Overall Assessment - The TRPH data are considered to be usable for meeting project objectives without qualification. All recoveries for laboratory control samples and matrix spike samples and

all duplicate analyses satisfied the accuracy and precision QA objectives specified in the DCQAP demonstrating that acceptable accuracy and precision were achieved. As such, the analytical completeness for the TRPH analyses is 100 percent [(17-0)/17*100%].

Case Narrative - The case narrative indicated that no problems were encountered during the TRPH analyses performed on these samples.

Holding Times - Holding times were calculated by subtracting the analysis date found on the benchsheets from the sample collection dates specified on the COCs. The holding times were compared to the requirements specified in the DCQAP (Table 4-2). All sample analyses were conducted within the holding time requirements and data qualification was not necessary.

Calibration - The calibrations procedures were evaluated by reviewing the benchsheets and raw data system printouts. A four point initial calibration was performed. The data reviewer entered the initial calibration data into a spreadsheet and analyzed it with a linear regression function. The data reviewer's calculated correlation coefficient for the linear regression agreed with the laboratory's reported correlation coefficient which was greater than 0.995 indicating sufficient linearity of instrument response. The recoveries of TRPH for all initial calibration and continuing calibration verification analyses ranged form 100 to 102 percent and were considered to be acceptable. Data qualification on the basis of initial and continuing calibration verification was not necessary.

Method Blank - Method blank contamination was evaluated by reviewing the method blank reporting forms, raw method blank sample data, and QC Lot assignments designated on the preparation logs. A method blank and associated samples share a unique QC Lot number.

Results for any analytes reported as detected in samples which was also reported as detected in an associated blank were qualified as nondetect if the sample concentration was less than 5 times the blank concentration.

There were two method blanks associated with the preparation and analysis of these samples. TRPH was not detected in the method blanks and data qualification was not required.

Laboratory Control Sample (LCS) Analysis - The laboratory prepared duplicate laboratory control samples (DCSs) for the TRPH analysis. A DCS is the preparation of two identical but individual LCSs which are prepared and analyzed with a batch of samples and the results compared so that precision, as well as accuracy, can be assessed.

Laboratory control sample analyses were evaluated by reviewing the DCS reporting forms, raw DCS sample data, and QC Lot assignments designated on the preparation logs. A DCS sample pair and its associated samples share a unique QC Lot number.

Two DCS samples pairs were prepared with the samples reported in this data package. The recoveries of TRPH in the DCS1s and DCS2s and the relative percent differences (RPDs) between the DCS1 and DCS2 results were within the DCQAP-specified acceptance limits (Table 2-4) indicating satisfactory accuracy and precision with respect to method performance on the general sample matrix (soil). Data qualification based on the DCS results was not required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis - There were four MS/MSD analyses associated with the samples reported in this data package; results for two MS/MSD sets were reported in separate data packages. The MS/MSD analysis on sample CAN113-B301-1000 is associated with the two surface soil samples reported in this data package. The MS/MSD analysis on sample CAN113-B308-1055 is associated with the three bottom samples reported in this data package. The MS/MSD analyses for samples CAN113-B322-1018 and CAN113-B325-1030 reported in this data package are associated with the other soil boring samples reported in this data package and with soil boring samples reported in other data packages (see Table 2-1 for detailed associations).

Matrix spike/matrix spike duplicate sample analyses were evaluated by reviewing the matrix spike sample/matrix spike duplicate sample reporting forms and raw sample data. No transcription errors between the raw data and reporting forms were found and no calculation errors of spike recoveries were found. Matrix spike and matrix spike duplicate recoveries and the RPDs between them were compared to the acceptance limits presented in Table 2-4 of the DCQAP.

Results for these MS/MSD analyses satisfied the evaluation criteria specified in the DCQAP indicating satisfactory accuracy and precision with respect to site-specific sample matrix. Data qualification was not required.

Field Duplicate Result Agreement - There were four field duplicate sample pairs associated with the samples reported in this data package and their results were reported in separate data packages. Field duplicate sample pair CAN113-B310-0565/-1000 is associated with the two surface soil samples reported in this data package. Field duplicate sample pair CAN113-B307-0562/-1059 is associated with the three bottom samples reported in this data package. Field duplicate pairs CAN113-B326-0567/-1021 and CAN113-B330-0568/-1030 were associated with the other soil boring samples reported in this data package and soil boring samples reported in other data packages (see Table 2-1 for detailed associations).

Field duplicate results were evaluated by comparing the results for the sample to the results for its duplicate. For soil field duplicate results where both values were greater than 5 times the reporting limit, the RPD between the sample and duplicate results was compared to an evaluation criterion of 100%. For soil field duplicate results where one or both values reported were less than 5 times the reporting limit, the difference between the results was compared to a criterion of ±3 times the reporting limit.

Results for all field duplicate samples satisfied the above evaluation criteria and data qualification was not required.

Target Compound Identification, Quantitation, and Reporting Limits - No errors were found in TRPH identification and quantitation. The reporting limits obtained satisfied the requirements of the DCQAP. Data qualification on the basis target compound identification, quantitation, or reporting limits.

Completeness of the Data Package - The analytical data package was evaluated for completeness of deliverables against the following criteria;

- Presence of tabulated results for TRPH identified and quantified and reporting limits for TRPH when determined to be not present.

- Presence of COCs, case narrative, and analytical results for all QC analyses including laboratory spikes, matrix spikes, and matrix spike duplicates; laboratory duplicates and matrix spike duplicates; blanks; and initial calibration and continuing calibration analyses.

- Presence of all raw data including data system printouts and benchsheets for all sample and QC sample analyses which include the date of analysis, analyst, parameters analyzed, and spike level.

- Presence of sample preparation/extraction logs, which include the QC samples and their spiking levels, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the laboratory.

2.6 CHLORINATED HERBICIDES ANALYSIS

The chlorinated herbicide analysis was requested for five of the seventeen samples reported in data package 043617. Three of these samples were bottom samples which were analyzed for Appendix IX constituents. The results of the review are presented below.

Overall Assessment - The herbicides data are considered to be usable for meeting project objectives without qualification. All recoveries for laboratory control samples and matrix spike samples and all duplicate analyses satisfied the accuracy and precision QA objectives specified in the DCQAP demonstrating that acceptable accuracy and precision were attained for these analyses. As such, the analytical completeness for the herbicides analyses is 100 percent [(50-0)/50*100%].

Case Narrative - The case narrative indicated that no problems were encountered during the herbicides analyses performed on these samples.

Holding Times - Extraction holding times were calculated by subtracting the sample extraction dates on the preparation log from the sample collection dates specified on the COCs. Analysis holding times were calculated by subtracting the sample analysis dates from the sample extraction

dates, both found on the preparation logs. All samples were extracted within 14 days of collection and were analyzed within 40 days of extraction satisfying the holding time criteria specified in Table 4-2 of the DCQAP. Data qualification on the basis of holding times was not necessary.

Calibration - To evaluated initial calibration, the initial calibration summary sheets and the instrument printouts (quantitation reports and chromatograms) were reviewed. Examination summary forms and quantitation reports indicated that the internal standard method of calibration was used with one internal standard, D-BOB.

The initial calibration summary data indicated that a linear, not forced through 0 fit was applied to the data, however, personal communication with the laboratory (slc to TC, 09/25/95) indicated that the six-point initial calibration data were analyzed by a quadratic regression. The data reviewer entered the initial calibration data (analyte response divided by internal standard response vs. true concentration) for two analytes on each column into a spreadsheet which applied a quadratic regression to the data. For all analytes tested, correlation coefficients generated by the quadratic regression on the initial calibration data were greater than 0.995 indicating sufficient curve fit. Data qualification on the basis of initial calibration was not necessary.

To evaluated continuing calibration, the continuing calibration summary sheets and instrument printouts were reviewed. The frequency of continuing calibration analyses was acceptable. For both continuing calibration verification analyses, the retention times of all analytes present were within 0.05 minutes of the expected retention time as determined from the mid-concentration level initial calibration standard. For both continuing calibration analyses, the percent differences (%Ds) between the true concentrations and the measured concentrations for all analytes were less than 15 percent, the laboratory acceptance limit which parallels the Method 8150 requirement that the %D between the average calibration factor determined from the initial calibration and the calibration factor determined by the continuing calibration be less than 15 percent. The data reviewer used the quadratic regression spreadsheet to verify measured concentrations reported by the laboratory for two analytes on each column for both calibration verification analyses. No calculation errors were found. Data qualification on the basis of continuing calibration verification was not necessary.

Method Blank - Method blank contamination was evaluated by reviewing the method blank reporting forms, raw method blank sample data, and QC Lot assignments designated on the

preparation logs. A method blank and associated samples share a unique QC Lot number. Results for any analytes reported as detected in samples which was also reported as detected in an associated blank were qualified as nondetect if the sample concentration was less than 5 times the blank concentration.

There was one method blank associated with the preparation and analysis of these samples. No target compounds were detected in the method blank and data qualification was not required.

Laboratory Control Sample (LCS) Analysis - The DCS reporting forms, summary forms found in the raw data, the DCS raw data (quantitation reports and chromatograms), and preparation logs were reviewed. The QC Lot number on the preparation logs were used to determine the association of DCSs with samples.

One duplicate control sample (DCS) pair was prepared with the samples in this data package. The recoveries of the spiked compounds in DCS1 and DCS2 and the relative percent differences (RPDs) between the DCS1 and DCS2 results were within the DCQAP-specified acceptance limits (Table 2-3d) indicating that satisfactory accuracy and precision with respect to method performance on the general sample matrix (soil) was attained. Data qualification based on the LCS results was not required.

Surrogate Spike Compound Recovery - One surrogate compound was spiked into every field and QC sample prior to extraction. The surrogate recoveries listed in the raw data (on the form summarizing the results for both analytical columns) were compared to the surrogate recoveries reported on the sample reporting forms (Form I equivalent) and the spreadsheet used for analyzing the initial calibration data was also used to verify reported surrogate concentrations for several samples. No calculation or transcription errors were found.

The surrogate recoveries listed on the sample reporting forms were compared to the QA objectives specified in Table 2-2a of the DCQAP. The surrogate recovery for all samples was within the DCQAP acceptance range indicating that satisfactory accuracy with respect to the individual sample analyses was attained.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis - The MS/MSD analyses on sample CAN113-B308-1055, reported in a separate data package, are associated with the samples reported in this data package.

The MS/MSD results presented in the summary forms were compared to accuracy and precision QA objectives specified in Table 2-2b of the DCQAP. The raw MS/MSD data and sample preparation logs were reviewed to evaluate whether spike recoveries and RPDs were calculated and reported properly.

Results for these MS/MSD analyses on sample CAN113-B308-1055 satisfied the evaluation criteria specified in the DCQAP indicating that satisfactory accuracy and precision with respect to site-specific sample matrix (Cannon LF-5 soils) was attained. Data qualification was not required.

Field Duplicate Result Agreement - Field duplicate sample pair CAN113-B326-0567/1021, reported in a separate data package, was associated with the samples analyzed for herbicides in this data package.

Field duplicate results were evaluated by comparing the results for the sample to the results for its duplicate. For soil field duplicate results where both values were greater than 5 times the reporting limit, the RPD between the sample and duplicate results was compared to an evaluation criterion of 100%. For soil field duplicate results where one or both values reported were less than 5 times the reporting limit, the difference between the results was compared to a criterion of ±3 times the reporting limit.

Results for this field duplicate sample pair satisfied the evaluation criteria specified in the DCQAP and data qualification was not required.

Target Compound Identification, Quantitation, and Reporting Limits - A spreadsheet in which a quadratic regression was applied to the initial calibration data was used to verify reported concentrations. No errors were found in herbicide identification or quantitation. Retention times for analytes reported as present were within 0.05 minutes of the expected retention times as determined from the initial calibration. The reporting limits obtained satisfied the requirements of the DCQAP.

Completeness of the Data Package - The analytical data package was evaluated for completeness of deliverables against the following criteria;

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes determined to be not present.

- Presence of COCs, case narrative, and analytical results for all QC analyses including laboratory spikes, matrix spikes, laboratory duplicates, matrix spike duplicates, blanks, and initial calibration and continuing calibration analyses.

- Raw data system printouts (summary forms, quantitation reports, and chromatograms) for all sample and QC sample analyses which include the date of analysis, analyst, parameters analyzed, and spike level.

- Presence of sample preparation/extraction logs, which include the QC samples and their spiking levels, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the laboratory.

2.7 TOTAL ORGANIC CARBON (TOC) ANALYSIS

Sample CAN113-B323-1035 was the only sample in data package 043617 analyzed for TOC, however, data package 043617 also included the raw TOC data for samples in data packages 043530, 043562, 043608, 043618, and 043619 as they were included in the same analytical run. The TOC data were reviewed in accordance with the DCQAP. The results of the review are presented below.

Overall Assessment - The TOC data are considered to be usable for meeting project objectives without qualification. All recoveries for laboratory control samples and matrix spike samples and all duplicate analyses satisfied the accuracy and precision QA objectives specified in the DCQAP

demonstrating that acceptable accuracy and precision were achieved. As such, the analytical completeness for the TOC analysis is 100 percent [(1-0)/1*100%].

Case Narrative - The case narrative indicated that no problems were encountered during the TOC analyses performed on these samples.

Holding Times - The sample holding time was calculated by subtracting the analysis date on the benchsheet from the collection date specified on the COCs. The holding time was compared to the requirements specified in the DCQAP. The TOC analysis was conducted within the holding time requirement and data qualification was not necessary.

Calibration - To evaluate calibration, the laboratory benchsheets and raw data system printouts were reviewed. No transcription errors between the raw data printout and the benchsheet were found. The instrument was calibrated by analyzing a 12 percent carbon standard three times. The results obtained for the three analyses were 12.15 percent, 12.01 percent, and 11.84 percent. These results are considered to be indicative of satisfactory initial calibration. The frequency of calibration verification analyses was satisfactory. The percent recoveries obtained for the initial calibration verification and the continuing calibration verification ranged from 98 to 103 percent. Data qualification on the basis of initial calibration and calibration verification was not considered to be necessary.

Blanks - Blank contamination was evaluated by reviewing the method blank reporting forms, benchsheets, raw method blank and calibration blank sample data, and QC Lot assignments designated on the preparation logs. A method blank and associated samples share a unique QC Lot number. Results for any analytes reported as detected in samples which were also reported as detected in an associated blank were qualified as nondetect if the sample concentration was less than 5 times the blank concentration.

The frequency of method and calibration blanks was satisfactory. TOC was not reported as detected in any of the method blanks or calibration blanks and data qualification was not required.

Laboratory Control Sample (LCS) Analysis - The DCS reporting forms, benchsheets, raw data, and preparation logs were reviewed. The QC Lot numbers on the preparation logs were used to determine the association of DCSs with samples.

Two duplicate control sample (DCS) pairs were prepared for the TOC analyses included in the analytical run reported in this data package. The recoveries of TOC in DCS1 and DCS2 and the relative percent difference between the DCS1 and DCS2 results were within the DCQAP-specified acceptance limits (Table 2-4) indicating satisfactory accuracy and precision with respect to method performance on the general sample matrix (soil). Data qualification based on the LCS results was not required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis - The TOC MS/MSD analyses on sample CAN113-B311-1055 were associated with the TOC result reported in this data package. Although the MS/MSD results for sample CAN113-B311-1055 were reported in a separate data package, the results were present in the raw data included for this data package.

To evaluate MS/MSD results, the data reviewer reviewed the raw data and benchsheets. No transcription or calculation errors were found. The recoveries of TOC obtained by the MS and MSD analyses and the RPD between them were within the DCQAP acceptance limits (Table 2-4) indicating satisfactory accuracy and precision with respect to site-specific sample matrix. Data qualification based on the MS/MSD results was not required.

Field Duplicate Result Agreement - Field duplicate sample pair CAN113-B308-0563/-1025 is associated with the sample reported in this data package, however, the field duplicate TOC results were reported in a separate data package.

Field duplicate results were evaluated by comparing the results for the sample to the results for its duplicate. For soil field duplicate results where both values were greater than 5 times the reporting limit, the RPD between the sample and duplicate results was compared to an evaluation criterion of 100%. For soil field duplicate results where one or both values reported were less than 5 times the reporting limit, the difference between the results was compared to a criterion of ±3 times the reporting limit.

The field duplicate results satisfied the agreement requirements of the DCQAP and data qualification was not required.

Target Compound Quantitation and Reporting Limits - No errors were found in target compound quantitation. All samples were analyzed for TOC in quadruplicate and the reporting limits obtained satisfied the requirements of the DCQAP.

Completeness of the Data Package - The analytical data package was evaluated for completeness of deliverables against the following criteria;

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes determined to be not present.

- Presence of COCs, case narrative, and analytical results for all QC analyses including laboratory spikes, matrix spikes, laboratory duplicates, matrix spike duplicates, blanks, and initial calibration and continuing calibration analyses.

- Raw data system printouts (summary forms, quantitation reports, and chromatograms) for all sample and QC sample analyses which include the date of analysis, analyst, parameters analyzed, and spike level.

- Presence of sample preparation/extraction logs, which include the QC samples and their spiking levels, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the laboratory.

2.8 CYANIDE AND SULFIDE ANALYSES

Data package 043617 contained cyanide data for seventeen soil samples and sulfide results for the three bottom samples. The sulfide analysis was required for and conducted on only the bottom samples as they were to be analyzed for the Appendix IX list of target analytes. The results of the review are presented below.

Overall Assessment - The cyanide and sulfide data are considered to be usable for meeting project objectives without qualification. All recoveries for laboratory control samples and matrix spike samples and all duplicate analyses satisfied the accuracy and precision QA objectives specified in the DCQAP demonstrating that acceptable accuracy and precision were achieved. As such, the analytical completeness for the cyanide and sulfide analyses is 100 percent [(20-0)/20*100%].

Case Narrative - The case narrative indicated that no problems were encountered during the cyanide and sulfide analyses performed on these samples.

Holding Times - Holding times were calculated by subtracting the sample analysis date found on the benchsheets from the sample collection dates specified on the COCs. The holding times were compared to the requirements specified in the DCQAP. All sample analyses were conducted within the holding time requirements and data qualification was not necessary.

Calibration - The calibrations procedures were evaluated by reviewing the benchsheets and raw data system printouts. A six point initial calibration was performed for the cyanide analysis and a five point initial calibration was performed for the sulfide analysis. The data reviewer entered the initial calibration data into a spreadsheet and analyzed it with a linear regression function. The data reviewer's calculated correlation coefficients for the linear regressions agreed with the laboratory's reported correlation coefficients which were greater than 0.995 indicating sufficient linearity of instrument response. The recoveries of cyanide and sulfide in all initial calibration and continuing calibration verification analyses ranged form 95 to 103 percent and were considered to be acceptable. No calculation or transcription errors were found. Data qualification on the basis of initial and continuing calibration verification was not necessary.

Blanks - Blank contamination was evaluated by reviewing the method blank reporting forms, benchsheets, raw method and calibration blank sample data, and QC Lot assignments designated on the preparation logs. A method blank and associated samples share a unique QC Lot number. Results for any analytes reported as detected in samples which were also reported as detected in an associated blank were qualified as nondetect if the sample concentration was less than 5 times the blank concentration.

The frequency of method and calibration blanks was satisfactory. Cyanide and sulfide were not detected in any of the method blanks or calibration blanks and data qualification was not necessary.

Laboratory Control Sample (LCS) Analysis - The DCS reporting forms, laboratory benchsheets, raw data, and preparation logs were reviewed. The QC Lot number on the preparation logs were used to determine the association of DCSs with samples.

Two duplicate control sample (DCS) pairs were prepared with the samples reported in this data package. The recoveries of TRPH in the DCS1s and DCS2s and the relative percent differences between the DCS1 and DCS2 results were within the DCQAP-specified acceptance limits indicating satisfactory accuracy and precision with respect to method performance on the general sample matrix (soil). Data qualification based on the LCS results was not required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis - There were four cyanide and one sulfide MS/MSD analyses associated with the samples reported in this data package; results for two were reported in separate data packages.

The cyanide MS/MSD analysis on sample CAN113-B301-1000, reported in a separate data package, is associated with the two surface soil samples reported in this data package. The cyanide and sulfide MS/MSD analyses on sample CAN113-B308-1055, reported in a separate data package, is associated with the three bottom samples reported in this data package. The cyanide MS/MSD analyses for samples CAN113-B322-1018 and CAN113-B325-1030 reported in this data package were associated with the other soil boring samples reported in this data package and soil boring samples in other data packages (see Table 2-1 for detailed associations).

The MS/MSD results presented in the summary forms were compared to accuracy and precision QA objectives specified in Tables 2-2c and 2-4 of the DCQAP. The raw MS/MSD data and sample preparation logs were reviewed to evaluate whether spike recoveries and RPDs were calculated and reported properly.

Results for these MS/MSD analyses satisfied the evaluation criteria specified in the DCQAP indicating satisfactory accuracy and precision with respect to site-specific sample matrix. Data qualification was not required.

Field Duplicate Result Agreement - There were four field duplicate samples pairs associated with the samples reported in this data package and their results were reported in separate data packages.

Field duplicate sample pair CAN113-B310-0565/-1000 is associated with the two surface soil samples reported in this data package. Field duplicate sample pair CAN113-B307-0562/-1059 is associated with the three bottom samples reported in this data package. Field duplicate pairs CAN113-B326-0567/-1021 and CAN113-B330-0568/-1030, reported in this data package, were associated with the other soil boring samples reported in this data package and with soil boring samples reported in other data packages (see Table 2-1 for detailed associations).

Field duplicate results were evaluated by comparing the results for the sample to the results for its duplicate. For soil field duplicate results where both values were greater than 5 times the reporting limit, the RPD between the sample and duplicate results was compared to an evaluation criterion of 100%. For soil field duplicate results where one or both values reported were less than 5 times the reporting limit, the difference between the results was compared to a criterion of ±3 times the reporting limit.

Results for all field duplicate samples satisfied the evaluation criteria specified above and data qualification was not required.

Target Compound Identification, Quantitation, and Reporting Limits - No errors were found in cyanide or sulfide identification and quantitation. The reporting limits obtained satisfied the requirements of the DCQAP.

Completeness of the Data Package - The analytical data package was evaluated for completeness of deliverables against the following criteria;

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes determined to be not present.

- Presence of COCs, case narrative, and analytical results for all QC analyses including laboratory spikes, matrix spikes, laboratory duplicates, matrix spike duplicates, blanks, and initial calibration and continuing calibration analyses.

- Raw data system printouts (benchsheets, raw data system printouts, and preparation logs) for all sample and QC sample analyses which include the date of analysis, analyst, parameters analyzed, and spike level.

- Presence of sample preparation/extraction logs, which include the QC samples and their spiking levels, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the laboratory.

2.9 ORGANOPHOSPHORUS PESTICIDES ANALYSIS

The Appendix IX list of analytes includes nine organophosphorus pesticide compounds which were analyzed for by Method 8140. As the Appendix IX list was required for bottom samples only, only three samples reported in this data package, 043617, were analyzed for the organophosphorus pesticide analytes listed in Table 2-1j of the DCQAP. The results of the review are presented below.

Disulfoton is listed as a target analyte in the DCQAP and on the sample reporting forms, however, Disulfoton does not appear in the raw data. Communications with the laboratory (09/26/95, SLC to TC) indicated that Disyston is a synonym for Disulfoton such that Disulfoton appears in the raw data as Disyston.

Overall Assessment - The organophosphorus pesticide data are considered to be usable for meeting project objectives without qualification. All recoveries for laboratory control samples and matrix spike samples and all duplicate analyses satisfied the accuracy and precision QA objectives specified in the DCQAP demonstrating that acceptable accuracy and precision were achieved. As

such, the analytical completeness for the organophosphorus pesticides analyses is 100 percent [(27-0)/27*100%].

Case Narrative - The case narrative indicated that no problems were encountered during the organophosphorus pesticides analyses performed on these samples.

Holding Times - Extraction holding times were calculated by subtraction the sample extraction dates on the preparation logs from the sample collection dates specified on the COCs. Analysis holding times were calculated by subtraction the sample analysis dates found on the run logs from the extraction dates found on the preparation logs. All samples were extracted within 14 days of collection and analyzed within 40 days of extraction satisfying the holding time criteria specified in Table 4-2 of the DCQAP. Data qualification on the basis of holding times was not necessary.

Calibration - To evaluate initial and continuing calibration, summary sheets and instrument printouts were reviewed (quantitation reports and chromatograms).

Two initial calibrations were associated with the samples reported in this data package. The analytes included in each initial calibration as well as the concentrations levels and number of standards analyzed differed between the two initial calibrations.

The initial calibration conducted on 08/08/95, associated with the three field samples and the method blank sample, was a five point calibration conducted with standard solutions which contained only the Appendix IX organophosphorus pesticide compounds. The initial calibration conducted on 08/10/95, associated with the laboratory control samples, was conducted with different standard solutions than the first initial calibration. Some of the Appendix IX analytes were not included in this initial calibration, however, all target analytes and surrogate compounds present in the laboratory control samples were present in the second initial calibration. In addition, the concentration levels differed from those in the first initial calibration and five different standards were analyzed for some analytes and six different standards were analyzed for others. The different calibrations did not violate any method requirements such that the quality and usability of the data are not considered to be affected.

The initial calibration summary sheets indicated that the external standard method of calibration was used for both initial calibrations. The laboratory analyzed the calibration data with a $1/x^2$ - weighted linear regression. The data reviewer entered the analyte responses reported on the initial calibration quantitation reports for three analytes on each column into a spreadsheet to verify the initial calibration results reported by the laboratory. For all analytes tested, the correlation coefficients for the $1/x^2$ - weighted linear regression were greater than 0.995, indicating sufficient linearity. Data qualification on the basis of initial calibration was not necessary.

The continuing calibration verification analysis consisted of analyzing two standards, one which contained various target analytes listed in Method 8140 and one which contained only the Appendix IX organophosphorus pesticide target compounds and the two associated surrogate compounds. The data reviewer evaluated only the Appendix IX continuing calibration verification analyses.

The frequency of continuing calibration analyses was acceptable. For all continuing calibration verification analyses, the retention times of all analytes were within 0.06 minutes of the expected retention times as determined from the mid-concentration initial calibration standard. For all analytes, the percent differences between the true concentrations and measured concentrations were less than 20 percent. The worksheet used to verify the initial calibration results was used to verify measured concentrations in the continuing calibrations. No transcription or calculation errors were found

Method Blank - There was one method blank associated with the preparation and analysis of these samples. No target compounds were detected in the method blank and data qualification was not required.

Laboratory Control Sample (LCS) Analysis - The DCS reporting forms, summary forms found in the raw data, the DCS raw data (quantitation reports and chromatograms), and preparation logs were reviewed. The QC Lot number on the preparation logs were used to determine the association of DCSs with samples.

One duplicate control sample (DCS) pair was prepared with the samples reported in this data package. The recoveries of the spiked compounds in DCS1 and DCS2 samples and the relative

percent differences between the DCS1 and DCS2 results were within the DCQAP-specified acceptance limits (Table 2-3c) indicating satisfactory accuracy and precision with respect to method performance on the general sample matrix (soil). No transcription or calculation errors were found. Data qualification based on the LCS results was not required.

Surrogate Compound Spike Recovery - Two surrogate compounds were spiked into all field and QC samples prior to extraction. The surrogate recoveries listed in the raw data (on the form summarizing the results for both analytical columns) were compared to the surrogate recoveries reported on the sample reporting forms (Form I equivalent) and the spreadsheet used for analyzing the initial calibration data was also used to verify reported surrogate concentrations for several samples. No calculation or transcription errors were found.

The recoveries of the surrogate compounds in all samples were within the acceptance limits specified in the DCQAP (Table 2-2b) indicating satisfactory accuracy with respect to the individual sample analyses. Data qualification on the basis of surrogate compound recovery was not necessary.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis - The MS/MSD set of analyses performed on sample CAN113-B308-1055 and reported in a separate data package is associated with the bottom samples reported in this data package.

The raw MS/MSD data and sample preparation logs (containing the spike levels) were reviewed to evaluate whether the spike recoveries and relative percent differences (RPDs) were calculated and reported properly. No calculation or transcription errors were found. The MS/MSD results presented in the summary forms were compared to the accuracy and precision criteria contained in the DCQAP (Table 2-2b). All spike recoveries and RPDs between then were within the DCQAP acceptance limits indicating satisfactory accuracy and precision with respect to site-specific sample matrix (LF-5 soils) was attained. Data qualification was not required.

Field Duplicate Result Agreement - Field duplicate sample pair CAN113-B308-1059, reported in a separate data package, is associated with the samples reported in this data package.).

Field duplicate results were evaluated by comparing the results for the sample to the results for its duplicate. For soil field duplicate results where both values were greater than 5 times the reporting limit, the RPD between the sample and duplicate results was compared to an evaluation criterion of 100%. For soil field duplicate results where one or both values reported were less than 5 times the reporting limit, the difference between the results was compared to a criterion of ±3 times the reporting limit.

Results this field duplicate sample pair satisfied the evaluation criteria specified above and data qualification was not required.

Target Compound Identification, Quantitation, and Reporting Limits - A spreadsheet in which the $1/x^2$ - weighted linear regression was applied to the initial calibration data was used to verify reported concentrations for field and QC samples. No errors were found in organophosphorus pesticide identification or quantitation. Retention times for analytes reported as present were within 0.06 minutes of the expected retention times as determined from the initial calibration. The reporting limits obtained satisfied the requirements of the DCQAP (Table 2-1j). Chromatographic performance was acceptable; peaks were well-shaped, adequate resolution was demonstrated, and baselines were stable. Data qualification on the basis of target compound identification, quantitation, or reporting limits was not required.

Completeness of the Data Package - The analytical data package was evaluated for completeness of deliverables against the following criteria;

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes determined to be not present.

- Presence of COCs, case narrative, and analytical results for all QC analyses including laboratory spikes, matrix spikes, laboratory duplicates, matrix spike duplicates, blanks, and initial calibration and continuing calibration analyses.

- Raw data system printouts (summary forms, quantitation reports, and chromatograms) for all sample and QC sample analyses which include the date of analysis, analyst, parameters analyzed, and spike level.

- Presence of sample preparation/extraction logs, which include the QC samples and their spiking levels, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the laboratory.

3.1 QC REVIEW PARAMETER SUMMARY

3.1.1 Introduction

QC parameters are reviewed in order to evaluate the usability of the sample data in meeting project objectives. As specified in SOP No. 10 of the DCQAP, the QC review was based on evaluation of information reported on the laboratory data summary forms sheets with no recalculations from or checking of raw data. The following QC parameters were evaluated during the QC review of PCDD/PCDF analytical data:

- Holding times
- Blank contamination
- Internal standards performance
- Laboratory control sample results
- Field duplicate agreement
- Ion ratios for analytes reported as detected in sample data
- Completeness of the data package
- Overall assessment of the data

The text in this Section 3.1 describes in detail how the parameters were evaluated. The QC review reports for the individual data packages are contained in sections 3.2 and 3.3. These reports discuss any QA/QC parameters outside acceptance limits, provide an explanation of all sample results requiring qualification, and describe any professional judgment used by the reviewer in evaluating the data.

3.1.2 Holding times

Holding times were calculated by subtracting the sampling date for a given sample listed on the COC form from the preparation date found on the results form and by subtracting the preparation date found on the summary results form from the analysis date found on the

summary results form. Holding time limits specified in Table 4-2 of the DCQAP were no more than 30 days from sample collection to extraction and no more than 45 days from sample extraction to analysis..

3.1.3 Blank Contamination

Method blank contamination was evaluated by reviewing the reported concentration of target analytes on the analysis results summary page. If target analytes were reported as detected, evaluation of the associated sample results is discussed in the QC review report. No sample data required qualification on the basis of method blank contamination.

3.1.4 Internal Standard Performance

The ion ratios reported for the labeled internal standards on the instrument printouts for all sample analyses were reviewed to evaluate whether the ion ratios were within the acceptance ranges specified in Section 5.3.1.4 of the DCQAP.

The internal standard recoveries for all samples reported on the analysis result summary forms were reviewed to evaluate whether the recoveries fell within the acceptance range of 40 - 120% specified in the DCQAP.

3.1.5 Laboratory Control Sample Results

The percent recoveries for all target analytes and labeled internal standards in the laboratory control sample analysis reported on the laboratory control sample summary report were reviewed against the acceptance criteria contained in Table 2-3e of the DCQAP.

The laboratory did not analyze the laboratory control sample in duplicate so no direct evaluation of laboratory control sample analysis precision was possible. However, during the full validation reported in Section 1.0, the reviewer calculated the relative percent differences (RPD) between the target analyte concentration calculated from the continuing calibration standard analysis and the target analyte concentration reported for the laboratory control samples. No instances were found in which the RPD so calculated exceeded the RPD limits for duplicate laboratory control sample analysis. In the professional judgment of the reviewer,

this is considered to be an adequate demonstration of the precision of the sample analysis by the laboratory on standard solutions and no qualification of sample data during the QC reviews was considered necessary related to not having duplicate analyses of the laboratory control sample.

3.1.6 Field Duplicate Agreement

Field duplicate agreement was evaluated from the results reported on the analysis result summary forms for analysis of the sample and the associated field duplicate. The agreement between results was compared against the acceptance criteria specified in SOP No. 10 of the DCQAP:

- If both values were reported as greater than 5 times the reporting limit adjusted for dilution, the RPD between the sample and is duplicate was evaluated against a control limit of less than 100%.
- If either value reported was less than or equal to 5 times the reporting limit adjusted for dilution, the difference between the two values was evaluated against a control limit of less than 3 times the reporting limit adjusted for dilution.

Sample data associated with a field duplicate pair failing to meet these criteria are discussed in the QC Report.

3.1.7 Ion Ratios for Analytes Reported as Detected in Sample Data

The ion ratios reported for the labeled internal standards on the instrument printouts for all sample analyses were reviewed to evaluate whether the ion ratios were within the acceptance ranges specified in Section 5.3.1.4 of the DCQAP.

The ion ratios reported on the instrument printouts for all target analytes reported as detected in sample analyses were reviewed to evaluate whether the reported ion ratios were within the acceptance ranges specified in Section 5.3.1.4 of the DCQAP.

3.1.8 Completeness of the Data Package

The data package contents were reviewed against the data package deliverable requirements specified in Section 5.2 of the DCQAP. Any deliverables identified as missing were requested from the laboratory. If the missing deliverables were not obtainable from the laboratory, the potential effect on the quality of the associated data is discussed in the QC Review Report.

3.1.9 Overall Assessment of Data

Based on the results of the QC review, the reviewer evaluated the overall quality of the data contained within the data package. The assessment contained in the QC Review Reports is intended to inform users concerning data quality and data limitations, if any. This information is provided in order to assist the user in avoiding inappropriate use of the data, while not precluding any consideration of the data at all.

3.2 QC REVIEW - DATA PACKAGE #43699

Six environmental samples were analyzed for the polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDDs/PCDFs) contained on the Appendix IX list of compounds utilizing EPA Method 8280. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B320-1052	043699-0001-SA
CAN113-B317-1053	043699-0002-SA
CAN113-B312-1065	043699-0003-SA
CAN113-B318-1063	043699-0004-SA
CAN113-B321-1057	043699-0005-SA
CAN113-B324-1059	043699-0006-SA

Samples in this data package underwent a QC Review in accordance with the provisions of Section 5.3.2.4 of the DCQAP. Section 3.1 describes in detail how the QC parameters were reviewed during this evaluation of the usability of the data. This section describes any QA/QC

parameters outside acceptance limits, provides an explanation of all sample results requiring qualification, and describes any professional judgment used by the reviewer in evaluating the data in this data package.

3.2.1 QC Review Results

All QC review parameters described in Section 3.1 were within acceptance limits and no data required qualification or rejection.

3.2.2 Overall Assessment of Data

Accuracy and precision of the sample analyses were considered to be acceptable as measured by the continuing calibration standard agreement, the laboratory control sample recoveries, the internal standard recoveries, and the field duplicate sample analysis agreement. No circumstances were found in which quality control measures failed to meet acceptance criteria. All analytical results are considered to be useable as reported by the laboratory.

3.3 QC REVIEW - DATA PACKAGE #43764

Four environmental samples were analyzed for the polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDDs/PCDFs) contained on the Appendix IX list of compounds utilizing EPA Method 8280. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B306-1055	043699-0001-SA
CAN113-B306-0561	043699-0002-SA field duplicate of CAN113-B306-1055
CAN113-B313-1062	043699-0003-SA
CAN113-B301-1063	043699-0004-SA

Samples in this data package underwent a QC Review in accordance with the provisions of Section 5.3.2.4 of the DCQAP. Section 3.1 describes in detail how the QC parameters were

reviewed during this evaluation of the usability of the data. This section describes any QA/QC parameters outside acceptance limits, provides an explanation of all sample results requiring qualification, and describes any professional judgment used by the reviewer in evaluating the data in this data package.

3.3.1 QC Review Results

All QC review parameters described in Section 3.1 were within acceptance limits and no data required qualification or rejection.

3.3.2 Overall Assessment of Data

Accuracy and precision of the sample analyses were considered to be acceptable as measured by the continuing calibration standard agreement, the laboratory control sample recoveries, the internal standard recoveries, and the field duplicate sample analysis agreement. No circumstances were found in which quality control measures failed to meet acceptance criteria. All analytical results are considered to be useable as reported by the laboratory.

4.1 QC REVIEW - PARAMETER SUMMARY

4.1.1 Introduction

For each analysis, QC parameters are reviewed in order to evaluate the usability of the sample data in meeting the project objectives. As specified in the DCQAP, the QC parameters that were evaluated for the analyses are: holding times, blank contamination, surrogate recoveries, matrix spike/matrix spike duplicates spike recoveries and relative percent differences (RPDs), duplicate control sample recoveries and RPDs, single control sample recoveries, laboratory duplicate precision, field duplicates agreement, overall assessment of the sample data and completeness of the sample data. The specific requirements for each method are discussed in the following sections. The QC review reports for each SDG discuss any QA/QC parameters outside acceptance limits, explanation of all data requiring qualification and any professional judgment used by the reviewer.

The association of MS/MSD analyses and field duplicate samples to the field samples are shown in Tables B2-1 through B2-9. In each of these tables, the QC sample(s) is listed in bold at the top of each list with the associated samples listed below.

QC reviews were performed on the following analytical fractions: volatiles, semivolatiles, pesticides/PCBs, Organophosphorus pesticides, chlorinated herbicides, metals, cyanide, Total Recoverable Petroleum Hydrocarbons (TRPH), Total Organic Carbon (TOC), and sulfide. One or more samples in each data package were analyzed for the appendix IX analyte list. Therefore, for some of the fractions a larger target compound list was reported than for the samples not requiring the full Appendix IX list.

All results reported as detected at concentrations below their respective reporting limit have been qualified as estimated and flagged "J". Precision of the analyses with respect to a given analyte is evaluated by calculating the relative percent difference (RPD) from duplicate results (e.g., matrix

spike/matrix spike duplicate; sample/lab duplicate). Some minor differences are present between the RPDs discussed in the validation and QC review reports and those reported by the laboratory. These differences are due to the laboratory calculating the RPDs before rounding the percent recoveries and sample results. The laboratory reports the rounded percent recoveries and sample results on the hard copy data sheets which were used by the data reviewer. It is the judgment of the data reviewer that these minor differences do not affect the evaluation of the data quality.

4.1.2 Metals and Total Cyanide

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the Chain-of-Custody (COC) form from the analysis date(s) listed on the sample result forms. Holding time limits for analysis for metals other than mercury are 6 months from date of sample collection. The holding time limits for analysis for mercury and cyanide are 28 days and 14 days, respectively, from date of sample collection. Sample analyses not meeting the holding time criteria are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result forms as well as the QC lot assignment report that details the samples associated with a given method blank. Initial Calibration Blanks (ICBs) and Continuing Calibration Blanks (CCBs) were evaluated by reviewing the raw data. ICB are associated with all samples analyzed in an analytical run sequence. CCBs are associated with the samples that they bracket. For initial or continuing calibration blanks associated with a soil sample, the equivalent concentration in soil was calculated by assuming that all of the analyte present in the blank analyzed was potentially present in the sample aliquot analyzed. An analyte was considered to be present in the blank at a concentration requiring evaluation of the effect on associated sample data if its equivalent absolute value was greater than 1/2 the reporting limit. Any analyte reported as detected in a sample that also was reported at a concentration requiring evaluation in an associated blank was qualified as a non-detect if the sample concentration was less than five times the equivalent blank concentration. ICBs or CCBs exhibiting negative blank concentrations resulted in the qualification of associated sample data using the following criterion: sample results including non-detects, less than or equal to 3X the absolute value of the blank contamination, were qualified as estimated due to a potential low bias. Qualification

of sample results on the basis of method blank contamination is discussed in the QC review reports.

Duplicate Control Samples (DCS) and Matrix Spike (MS). DCS and MS QC summary reports as well as the QC lot assignment reports were reviewed. QC lot assignment reports detailed the samples associated with a given DCS lot. DCS spike recoveries or RPDs and MS spike recoveries outside of the acceptance limits listed below are discussed in the QC review reports.

	PERCENT RECOVERY		**RPD**	
Analyte	**Water**	**Soil**	**Water**	**Soil**
ICP Metals	80-120	80-120	20	20
Arsenic	81-116	75-128	13	13
Lead	71-136	71-132	17	16
Selenium	73-125	71-129	15	12
Mercury	83-112	88-113	12	12
Thallium	75-125	48-152	20	20
Cyanide	75-119	75-125	17	20

Duplicate Sample Analysis. QC summary reports for matrix duplicate samples were reviewed. The RPDs reported on these summary forms were evaluated using the following criteria. If both the sample and matrix duplicate value were greater than 5X the reporting limit, the RPD was compared to the criteria listed below. If either value reported was less than 5X the reporting limit, the difference between the two results was compared to the criterion of ±2X the reporting limit. Laboratory duplicate results not meeting the above criteria are discussed in the QC review reports.

Analyte	RPDs Water	Soil
ICP Metals	20	20
Arsenic	13	13
Lead	17	16
Selenium	15	12
Mercury	12	12
Thallium	20	20
Cyanide	17	20

Field Duplicates. Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ± 3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of inorganic compounds identified and quantified and reporting limits for all analytes for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; standard procedural blanks and ICP interference check sample.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on DCS and MS recoveries and laboratory duplicate RPDs, were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.1.3 Volatile Organic Analysis

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the analysis date listed on the sample result form(s). The holding time limit for analysis for volatile organics is 14 days from the date of sample collection. Samples analyses not meeting the holding time criterion are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result form(s) as well as the QC lot assignment report which details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration, or ten times the blank concentration if the analyte is a common laboratory contaminant. Qualification of sample results on the basis of method blank contamination is discussed in the QC review reports.

Surrogate Recoveries. Surrogate recoveries for each sample were evaluated by reviewing the recoveries listed on the sample result forms against the criteria listed in the table below. Sample analyses with surrogate recoveries not meeting the criteria are discussed in the QC review reports.

Surrogate Compound	PERCENT RECOVERY Water	Soil/Sediment
1,2-Dichloroethane-d4	76-114	70-121
Toluene-d8	88-110	81-117
4-Bromofluorobenzene	86-115	75-121

Single Control Samples (SCS). SCS summary reports and QC lot assignment reports were reviewed. Surrogate recoveries were reported for each SCS on these forms. SCS surrogate recovery limits are listed in the table below. SCSs with surrogate recoveries outside of these limits are discussed in the QC review reports.

Surrogate Compound	PERCENT RECOVERY Water	Soil/Sediment
1,2-Dichloroethane-d4	85-111	82-112
Toluene-d8	91-110	90-112
4-Bromofluorobenzene	86-110	84-109

Duplicate Control Samples (DCS). DCS summary reports and QC lot assignment reports were reviewed. DCS recovery and RPD limits are listed in the table below. DCS recoveries and RPDs outside of these limits are discussed in the QC review reports.

	PERCENT RECOVERY		RPD	
Analyte	Water	Soil	Water	Soil
1,1-Dichloroethene	77-174	65-137	17	20
Trichloroethene	77-119	83-118	13	12
Benzene	80-117	80-119	12	10
Toluene	80-119	80-119	11	12
Chlorobenzene	81-120	80-119	14	12

Matrix Spike/Matrix Spike Duplicates (MS/MSD). MS/MSD summary forms were reviewed. MS/MSD recoveries and RPD limits are listed below. If MS/MSD recoveries or RPDs were outside of these limits, the surrogate recoveries for the sample, the MS and the MSD, the

associated DCS recoveries and RPDs and the associated SCS recoveries were also evaluated to help determine if the MS/MSD outliers were due to matrix effects. MS/MSD results not meeting the above criteria are discussed in the QC review reports.

	PERCENT RECOVERY		RPD	
Analyte	**Water**	**Soil**	**Water**	**Soil**
1,1-Dichloroethene	1-234	1-234	17	20
Trichloroethene	71-157	71-157	13	12
Benzene	37-151	37-151	12	10
Toluene	47-150	47-150	11	12
Chlorobenzene	37-160	37-160	14	12

Field Duplicates. Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Tentatively Identified Compounds (TICs). Reported TICs not present in associated blanks but identified as reagent contaminants, solvent preservatives, aldol condensation products or other common laboratory artifacts/contaminants were reviewed using guidance from EPA's National Functional Guidelines for Organic Data Review, February 1994 and are discussed in the QC reviews. Reported TICs considered potentially to contribute significantly to an unacceptable risk underwent a detailed validation process as described in Section 2.1 to evaluate with a greater degree of confidence whether the compounds were present or absent in the sample. Changes to the laboratory identifications for these TICs by the data reviewer are discussed in the QC reviews. At least 50% of all TICs underwent validation in accordance with Functional Guidelines criteria described in Section 2.1.

Other. During the full validation, it was noted that the RFs for several of the Appendix IX analytes (1,4-dioxane, acetonitrile, isobutanol) typically had a lower response than the CLP

analytes. A low value for the RF indicates lower instrument sensitivity and hence an elevated detection limit. The minimum RF criterion of 0.05 recommended in Functional Guidelines is applicable to the CLP analytes for which a RF > 0.05 is a reasonable criterion. In order to take into account the lower sensitivity of the analytical method to these analytes, the laboratory had raised the reporting limits to a concentration at which they can reliably measure these analytes. An evaluation of the response to the low concentration standard for these analytes in the initial calibrations indicate that the response per unit area of the peak is consistent with the higher concentration standards. In addition, the analyte peaks in the total ion chromatograms were significantly above the instrument noise level and could be adequately detected at concentrations at or below the concentration of the low standard. As such, although the RFs for these analytes in some instances are less than 0.05, it is the judgment of the data reviewer that the instrument is capable of quantitating these analytes at the respective reporting limits and, therefore, no qualification or rejection of the data for these analytes based on the RFs are necessary.

Reporting limits were evaluated during the QC review in those instances where the instrument sensitivity decreased from the initial to the continuing calibration for the Appendix IX analytes with RFs less than 0.05 and where the %Ds exceeded the criterion of 25%.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on SCS, DCS, surrogate and MS/MSD recoveries and DCS and MS/MSD RPDs, were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.1.4 Semivolatile Organic Analysis

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the extraction date listed on the sample result form(s) and subtracting the extraction date from the date of analysis listed on the sample result form. For soil samples, the holding time limit for extraction for semivolatile organics is 14 days from the date of sample collection. For water samples, the holding time limit for extraction for semivolatile organics is 7 days from the date of sample collection. The holding time limit for analysis is 40 days from sample extraction. Samples analyses not meeting the holding time criteria are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result form(s) as well as the QC lot assignment report which details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration, or ten times the blank concentration if the analyte is a common laboratory contaminant. Qualification of sample results on the basis of method blank contamination is discussed in the QC review reports.

Surrogate Recoveries. Surrogate recoveries for each sample were evaluated by reviewing the recoveries listed on the sample result forms against the criteria listed in the table below. Sample analyses with surrogate recoveries not meeting the criteria are discussed in the QC review reports.

Surrogate Compound	Percent Recovery Water	Soil/Sediment
2-Fluorobiphenyl	43-116	30-115
Nitrobenzene-d5	35-114	23-120
Terphenyl-d14	33-141	18-137
2-Fluorophenol	21-100	25-121
Phenol-d5	54-105	24-113
2,4,6-Tribromophenol	10-123	19-122

Single Control Samples (SCS). SCS summary reports and QC lot assignment reports were reviewed. Surrogate recoveries were reported for each SCS on these forms. SCS surrogate recovery limits are listed in the table below. SCSs with surrogate recoveries outside of these limits are discussed in the QC review reports.

Surrogate Compound	Percent Recovery Water	Soil/Sediment
2-Fluorobiphenyl	43-104	61-114
Nitrobenzene-d5	49-113	62-110
Terphenyl-d14	33-139	49-137
2-Fluorophenol	42-100	60-115
Phenol-d5	54-105	61-111
2,4,6-Tribromophenol	33-123	44-110

Duplicate Control Samples (DCS). DCS summary reports and QC lot assignment reports were reviewed. DCS recovery and RPD limits are listed in the table below. DCS recoveries and RPDs outside of these limits are discussed in the QC review reports.

	Percent Recovery		RPD	
Analyte	Water	Soil	Water	Soil
Phenol	45-109	45-107	29	19
2-Chlorophenol	47-111	46-112	29	17
1,4-Dichlorobenzene	32-103	58-101	28	22
N-Nitroso-di-n-propylamine	49-107	58-101	24	18

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
1,2,4-Trichlorobenzene	44-102	59-103	27	24
4-Chloro-3-methylphenol	50-115	41-123	27	16*
Acenaphthene	47-109	54-110	24	15
4-Nitrophenol	40-127	30-132	51	22
2,4-Dinitrotoluene	46-118	51-117	22	17
Pentachlorophenol	30-136	32-130	34	29
Pyrene	52-115	52-115	23	20

Matrix Spike/Matrix Spike Duplicates (MS/MSD). MS/MSD summary forms were reviewed. MS/MSD recoveries and RPD limits are listed below. If MS/MSD recoveries or RPDs were outside of these limits, the surrogate recoveries for the sample, the MS and the MSD, the associated DCS recoveries and RPDs and the associated SCS recoveries were also evaluated to help determine if the MS/MSD outliers were due to matrix effects. MS/MSD results not meeting the above criteria are discussed in the QC review reports.

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
Phenol	5-112	5-112	29	19
2-Chlorophenol	23-134	23-134	19	17
1,4-Dichlorobenzene	20-124	20-124	28	22
N-Nitroso-di-n-propylamine	1-230	1-230	24	18
1,2,4-Trichlorobenzene	44-142	44-142	27	24
4-Chloro-3-methylphenol	22-127	22-127	27	16
Acenaphthene	47-145	47-145	24	15
4-Nitrophenol	1-132	1-132	51	22
2,4-Dinitrotoluene	39-139	39-139	22	17
Pentachlorophenol	14-176	14-176	34	29
Pyrene	52-115	52-115	23	20

Field Duplicates. Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the

reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Tentatively Identified Compounds (TICs). Reported TICs not present in associated blanks but identified as reagent contaminants, solvent preservatives, aldol condensation products or other common laboratory artifacts/contaminants were reviewed using guidance from EPA's National Functional Guidelines for Organic Data Review, February 1994 and are discussed in the QC reviews. Reported TICs considered potentially to contribute significantly to an unacceptable risk underwent a detailed validation process as described in Section 2.2 to evaluate with a greater degree of confidence whether the compounds were present or absent in the sample. Changes to the laboratory identifications for these TICs by the data reviewer are discussed in the QC reviews. At least 50% of all TICs underwent validation in accordance with Functional Guidelines criteria described in Sections 2.2.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on SCS, DCS, surrogate and MS/MSD recoveries and DCS and MS/MSD RPDs, were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.1.5 Organochlorine Pesticide/PCB Organic Analysis

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the extraction date listed on the sample result form(s) and subtracting the extraction date from the date of analysis listed on the sample result form. For soil samples, the holding time limit for extraction for Pesticide/PCB is 14 days from the date of sample collection. For water samples, the holding time limit for extraction is 7 days from the date of sample collection. The holding time limit for analysis is 40 days from sample extraction. Samples analyses not meeting the holding time criteria are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result form(s) as well as the QC lot assignment report which details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration. Qualification of sample results on the basis of method blank contamination is discussed in the QC review reports.

Surrogate Recoveries. Surrogate recoveries for each sample were evaluated by reviewing the recoveries listed on the sample result forms against the criteria listed in the table below. Sample analyses with surrogate recoveries not meeting the criteria are discussed in the QC review reports.

	Percent Recovery	
Surrogate	**Water**	**Soil/Sediment**
Dibutylchlorendate	53-168	49-134

Single Control Samples (SCS). SCS summary reports and QC lot assignment reports were reviewed. Surrogate recoveries were reported for each SCS on these forms. SCS surrogate recovery limits are listed in the table below. SCSs with surrogate recoveries outside of these limits are discussed in the QC review reports.

	Percent Recovery	
Surrogate	**Water**	**Soil/Sediment**
Dibutylchlorendate	56-138	42-154

Duplicate Control Samples (DCS). DCS summary reports and QC lot assignment reports were reviewed. DCS recovery and RPD limits are listed in the table below. DCS recoveries and RPDs outside of these limits are discussed in the QC review reports.

	Percent Recovery		RPD	
Analyte	**Water**	**Soil**	**Water**	**Soil**
Aldrin	69-112	71-122	16	11
gamma-BHC	81-117	63-130	13	11
4,4'-DDT	76-125	63-137	14	10
Dieldrin	77-111	57-123	13	10
Endrin	83-122	58-133	14	10
Heptachlor	72-125	62-136	11	10

Matrix Spike/Matrix Spike Duplicates (MS/MSD). MS/MSD summary forms were reviewed. MS/MSD recoveries and RPD limits are listed below. If MS/MSD recoveries or RPDs were outside of these limits, the surrogate recoveries for the sample, the MS and the MSD, the associated DCS recoveries and RPDs and the associated SCS recoveries were also evaluated to help determine if the MS/MSD outliers were due to matrix effects. MS/MSD results not meeting the above criteria are discussed in the QC review reports.

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
Aldrin	42-122	42-122	20	20
gamma-BHC	32-127	32-127	20	20
Dieldrin	36-146	36-146	20	20
Endrin	30-147	30-147	20	20
Heptachlor	34-111	34-111	20	20
4,4'-DDT	25-160	25-160	20	20

Field Duplicates. Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on SCS, DCS, surrogate and MS/MSD recoveries and DCS and MS/MSD RPDs, were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.1.6 Organophosphorus Pesticides Analysis

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the extraction date listed on the sample result form(s) and subtracting the extraction date from the date of analysis listed on the sample result form. For soil samples, the holding time limit for extraction for Pesticides is 14 days from the date of sample collection. For water samples, the holding time limit for extraction for Pesticides is 7 days from the date of sample collection. The holding time limit for analysis is 40 days from sample extraction. Samples analyses not meeting the holding time criterion are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result form(s) as well as the QC lot assignment report which details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration. Qualification of sample results on the basis of method blank contamination is discussed in the QC review reports.

Surrogate Recoveries. Surrogate recoveries for each sample were evaluated by reviewing the recoveries listed on the sample result forms against the criteria listed in the table below. Sample analyses with surrogate recoveries not meeting the criteria are discussed in the QC review reports.

	Percent Recovery	
Surrogate	**Water**	**Soil/Sediment**
Chlormefos	49-121	55-105
Ethyl Pirimifos	63-130	50-150

Single Control Samples (SCS). SCS summary reports and QC lot assignment reports were reviewed. Surrogate recoveries were reported for each SCS on these forms. SCS surrogate recovery limits are listed in the table below. SCSs with surrogate recoveries outside of these limits are discussed in the QC review reports.

Surrogate Compound	Percent Recovery Water	Percent Recovery Soil/Sediment
Chlormefos	49-121	55-105
Ethyl Pirimifos	63-130	50-150

Duplicate Control Samples (DCS). DCS summary reports and QC lot assignment reports were reviewed. DCS recovery and RPD limits are listed in the table below. DCS recoveries and RPDs outside of these limits are discussed in the QC review reports.

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
Ethyl Parathion	NA	61-150	NA	23
phorate	NA	1-116	NA	50
Methyl Parathion	NA	67-115	NA	12

Matrix Spike/Matrix Spike Duplicates (MS/MSD). MS/MSD summary forms were reviewed. MS/MSD recoveries and RPD limits are listed below. If MS/MSD recoveries or RPDs were outside of these limits, the surrogate recoveries for the sample, the MS and the MSD, the associated DCS recoveries and RPDs and the associated SCS recoveries were also evaluated to help determine if the MS/MSD outliers were due to matrix effects. MS/MSD results not meeting the above criteria are discussed in the QC review reports.

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
Ethyl Parathion	NA	61-150	NA	23
phorate	NA	1-116	NA	50
Methyl Parathion	NA	61-150	NA	12

Field Duplicates. Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on SCS, DCS, surrogate and MS/MSD

recoveries and DCS and MS/MSD RPDs, were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.1.7 Herbicides Analysis

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the extraction date listed on the sample result form(s) and subtracting the extraction date from the date of analysis listed on the sample results form. For soil samples, the holding time limit for extraction for herbicides is 14 days from the date of sample collection. For water samples, the holding time limit for extraction for herbicides is 7 days from the date of sample collection. The holding time limit for analysis is 40 days from sample extraction. Samples analyses not meeting the holding time criterion are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result form(s) as well as the QC lot assignment report which details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration. Qualification of sample results on the basis of method blank contamination is discussed in the QC review reports.

Surrogate Recoveries. Surrogate recoveries for each sample were evaluated by reviewing the recoveries listed on the sample result forms against the criteria listed in the table below. Sample analyses with surrogate recoveries not meeting the criteria are discussed in the QC review reports.

	Percent Recovery	
Surrogate Compound	**Water**	**Soil/Sediment**
2,4-Dichlorophenylacetic acid	45-123	42-125

Single Control Samples (SCS). SCS summary reports and QC lot assignment reports were reviewed. Surrogate recoveries were reported for each SCS on these forms. SCS surrogate

recovery limits are listed in the table below. SCSs with surrogate recoveries outside of these limits are discussed in the QC review reports.

Surrogate Compound	Percent Recovery Water	Soil/Sediment
2,4-Dichlorophenylacetic acid	45-123	42-125

Duplicate Control Samples (DCS). DCS summary reports and QC lot assignment reports were reviewed. DCS recovery and RPD limits are listed in the table below. DCS recoveries and RPDs outside of these limits are discussed in the QC review reports.

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
2,4-D	44-97	37-100	34	36
2,4,5-TP (silvex)	49-102	42-107	32	29
2,4,5-T	47-110	29-118	32	29

Matrix Spike/matrix spike duplicates (MS/MSD). MS/MSD summary forms were reviewed. MS/MSD recoveries and RPD limits are listed below. If MS/MSD recoveries or RPDs were outside of these limits, the surrogate recoveries for the sample, the MS and the MSD, the associated DCS recoveries and RPDs and the associated SCS recoveries were also evaluated to help determine if the MS/MSD outliers were due to matrix effects. MS/MSD results not meeting the above criteria are discussed in the QC review reports.

Analyte	Percent Recovery Water	Percent Recovery Soil	RPD Water	RPD Soil
2,4-D	44-97	37-100	34	36
2,4,5-TP (silvex)	49-102	42-107	32	29
2,4,5-T	47-110	29-118	32	29

Field Duplicates. Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a

criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of organic compounds identified and quantified and reporting limits for all analytes for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on SCS, DCS, surrogate and MS/MSD recoveries and DCS and MS/MSD RPDs, were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.1.8 Total Recoverable Petroleum Hydrocarbon (TRPH) Analysis

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the analysis dates listed on the sample result forms. Holding time limits for TRPH analysis are 28 days from date of sample collection. Sample analyses not meeting the holding time criteria are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result forms as well as the QC lot assignment report that details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration. Qualification of sample results on the basis of method blank contamination is discussed in the QC review reports.

Duplicate Control Samples (DCS. DCS summary reports as well as the QC lot assignment reports were reviewed. DCS spike recoveries or RPDs outside of the 73-121% recovery and 21% RPD acceptance limits are discussed in the QC review reports.

Matrix Spike/matrix spike duplicates (MS/MSD). MS/MSD summary reports were reviewed. MS/MSD recoveries and RPDs outside of the 53-131% recovery and 39% RPD acceptance limits are discussed in the QC review reports.

Laboratory Duplicates. QC summary reports for laboratory duplicate samples were reviewed. For laboratory duplicate results, if both values are >5X the reporting limit, the RPD between the sample and its duplicate was evaluated against the criterion of <21%. If either value reported is <5X the reporting limit, the difference between the results was evaluated against the criterion of ±3X the reporting limit adjusted for dilution. Results outside of these limits are discussed in the QC review reports.

Field Duplicates. . Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of concentration and reporting limits for TRPH for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG; and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on DCS and MS/MSD recoveries and RPDs, and laboratory duplicate RPDs were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.1.9 Total Organic Carbon (TOC) Analysis

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the analysis dates listed on the sample result forms. Holding time limits for TOC analysis are 28 days from date of sample collection. Sample analyses not meeting the holding time criteria are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result forms as well as the QC lot assignment report that details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration. Qualification of sample results on the basis of method blank contamination is discussed in the QC review reports.

Duplicate Control Samples (DCS). DCS summary reports as well as the QC lot assignment reports were reviewed. DCS spike recoveries or RPDs outside of the 91-111% recovery and 10% RPD acceptance limits are discussed in the QC review reports.

Matrix Spike/Matrix Spike Duplicates (MS/MSD). MS/MSD summary reports were reviewed. MS/MSD recoveries and RPDs outside of the 90-110% recovery and 10% RPD acceptance limits are discussed in the QC review reports.

Laboratory Duplicates. QC summary reports for laboratory duplicate samples were reviewed. For laboratory duplicate results, if both values are >5X the reporting limit, the RPD between the sample and its duplicate was evaluated against the criterion of <10%. If either value reported is <5X the reporting limit, the difference between the results was evaluated against the criterion of ±3X the reporting limit adjusted for dilution. Results outside of these limits are discussed in the QC review reports.

Field Duplicates. Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of concentration and reporting limits for TOC for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.

- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on DCS and MS/MSD recoveries and RPDs, and laboratory duplicate RPDs were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.1.10 Sulfide Analysis

Holding Times. Holding times were calculated by subtracting the sampling date for a given sample on the COC form from the analysis dates listed on the sample result forms. Holding time limits for sulfide analysis are 28 days from date of sample collection. Sample analyses not meeting the holding time criteria are discussed in the QC review reports.

Blanks. Method blank contamination was evaluated by reviewing the method blank result forms as well as the QC lot assignment report that details the samples associated with a given method blank. Any analyte reported as detected in a sample that was also reported as detected in an associated blank was qualified if the sample concentration was less than five times the blank concentration. Qualification of sample results on the basis of method blank contamination is discussed in the QC review reports.

Duplicate Control Samples (DCS). DCS summary reports as well as the QC lot assignment reports were reviewed. DCS spike recoveries or RPDs outside of the 5-149% recovery and 109% RPD acceptance limits are discussed in the QC review reports.

Matrix Spike/matrix spike duplicates (MS/MSD). MS/MSD summary reports will be reviewed. MS/MSD recoveries and RPDs outside of the 5-149% recovery and 109% RPD are discussed in the QC review reports.

Laboratory Duplicates. QC summary reports for laboratory duplicate samples were reviewed. For laboratory duplicate results, if both values are >5X the reporting limit, the RPD between the sample and its duplicate was evaluated against the criterion of <109%. If either value reported is <5X the reporting limit, the difference between the results was evaluated against the criterion of ±3X the reporting limit adjusted for dilution. Results outside of these limits are discussed in the QC review reports.

Field Duplicates. Field duplicate results were evaluated by comparing the results for the sample and its duplicate. For soil field duplicate results where both values are >5X the reporting limit, the RPD between the sample and its duplicate was compared against a criterion of <100%. For duplicate pairs where one or both values reported are <5X the reporting limit, the difference between the results was compared to a criterion of ±3X the reporting limit. Field duplicate results not meeting the above criteria are discussed in the QC review reports.

Completeness. The analytical data package was evaluated for completeness of deliverables against the following criteria:

- Presence of tabulated results of concentration and reporting limits for sulfide for all samples.
- Presence of COCs; case narrative detailing the problems in the SDG, and analytical results for: QC sample spikes, sample duplicates; ICVs, CCVs, blank results; and standard procedural blanks.
- Raw data system printouts including date of analysis, analyst, parameters analyzed, calibration curve, continuing calibration checks, method blank, sample number, sample duplicate, spike, control sample, spike level, sample preparation/extraction sheets, and run logs.

Data package deliverables that did not meet the above criteria were documented and the missing deliverables were obtained from the contract laboratory. Any documents not obtainable from the laboratory are noted in the QC review reports.

Overall Assessment. The usability of the data was evaluated as to whether the accuracy and precision goals for the sample analyses, based on DCS and MS/MSD recoveries and RPDs, and laboratory duplicate RPDs were met for all analytes. The results of this evaluation are contained in the QC Review reports.

4.2 QC REVIEW DATA PACKAGE 043530

4.2.1 Introduction

Samples were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum hydrocarbons, total organic carbon, cyanide and sulfide. Sample CAN113-B310-1064 was analyzed for the appendix IX list of compounds. Sample CAN113-B311-1055 was used for the matrix spike, and laboratory duplicate. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B310-1000	043530-0001-SA
CAN113-B310-0565	043530-0002-SA (field duplicate of sample CAN113-B310-1000)
CAN113-B310-1029	043530-0003-SA
CAN113-B310-1034	043530-0004-SA
CAN113-B310-1044	043530-0005-SA
CAN113-B310-1054	043530-0006-SA
CAN113-B310-1064	043530-0007-SA
CAN113-B311-1031	043530-0008-SA
CAN113-B311-1035	043530-0009-SA
CAN113-B311-1045	043530-0010-SA
CAN113-B311-1055	043608-0011-SA MS/MSD

4.2.2 Volatile Organics By Method 8240

Samples were analyzed for volatile organics by method 8240. Sample CAN113-B310-1064 was analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.2 were within acceptance limits with the exception of blank contamination.

4.2.2.1 Blank Contamination

The method blank 24 JUL 95 H had methylene chloride reported as detected at concentrations of 3.1 µg/kg. All samples except for sample CAN113-B310-1064 were associated with this method blank. Samples CAN113-B310-1000, CAN113-B310-1054 and CAN113-B311-1031 had methylene chloride reported as non-detect and no qualification was required. Methylene chloride results for all other associated samples were reported at a concentration less than ten times the amount found in the method blank and below the reporting limit and were qualified as non-detect (U) at the reporting limit.

The method blank 27 JUL 95 H had 2-Butanone reported as detected at a concentration of 1.4 µg/kg. Sample CAN113-B310-1064 was associated with this method blank. 2-Butanone was reported at a concentration less than ten times the amount found in the method blank and below the reporting limit and were qualified as non-detect (U) at the reporting limit.

4.2.2.2 Tentatively Identified Compounds (TICs)

Volatile TICs were reported in five of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B310-1029, CAN113-B310-1034, CAN113-B310-1044, and CAN113-B310-1064 were qualified as unusable (R). No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.2.2.3 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and associated MS/MSD

recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.2.3 Semivolatile Organics By Method 8270

Samples were analyzed for semivolatile organics by method 8270. Sample CAN113-B310-1064 was analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.3 were within acceptance limits with the exception of blank contamination and MS/MSD precision.

4.2.3.1 Blank Contamination

The method blank 28 JUL 95 S1 had diethyl phthalate reported as detected at a concentration of 41 µg/kg. Sample CAN113-B310-1064 was associated with this blank. Diethyl phthalate results were reported as non-detect in this sample and no data qualification was required.

The method blank 02 AUG 95 S1 had bis(2-ethylhexyl)phthalate reported as detected at a concentration of 360 µg/kg. All samples except for CAN113-B310-1064 were associated with this blank. Bis(2-ethylhexyl)phthalate was reported as non-detect in sample CAN113-B310-0565 and no qualification was required. Bis(2-ethylhexyl)phthalate results were reported as detected at concentrations less than 10 times the blank contamination and less than the reporting limit in all other associated samples and results were qualified as non-detect (U) at the reporting limit.

4.2.3.2 MS/MSD Recoveries

All associated MS/MSD recoveries and RPDs were within acceptance limits with the exception of the recoveries for CAN113-B308-1055 MS/MSD. The sample in this data package associated with this spike is CAN113-B310-1064. For sample CAN113-B308-1055 MS/MSD, the respective 2,4-Dinitrotoluene recoveries of 38% and 37% were slightly below the acceptance limits of 39-139%. As all other QC criteria were within acceptance limits, and

the MS/MSD recoveries were just below the acceptance criterion, no data qualification was considered necessary.

4.2.3.3 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in five of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in sample CAN113-B311-1055 were qualified as unusable (R).

The identification of 3-methoxy-(3.beta.)-D-friedoolean-14-ene in sample CAN113-B310-0565 (RT = 24.465 min) was considered to be unacceptable by the data reviewer. The base peak in the sample spectrum (m/z = 55) differs from that in the reference spectrum (m/z = 204) and the relative intensities for several major ions (i.e., greater than 10% relative intensity) at m/z 41 to m/z 140 and m/z 255 to m/z 316 in the sample spectrum are significantly different than those present in the reference spectrum (see TIC reference spectra for 3-methoxy-(3.beta.)-D-friedoolean-14-ene in data package 43562, sample 43562-10). The major ions present at m/z 411 and 412 are absent from the reference spectrum. There was no indication of coelution at the retention time for this TIC in the total ion chromatogram for this sample. As such, the tentative identification of 3-methoxy-(3.beta.)-D-friedoolean-14-ene in sample CAN113-B310-0565 was changed to "unknown".

The identification of widdrene in sample CAN113-B310-0565 (RT = 24.695 min) was considered to be unacceptable by the data reviewer. The base peak in the sample spectrum (m/z = 189) differs from that in the reference spectrum (m/z = 121) and the relative intensities for several major ions at m/z 41 to m/z 210 in the sample spectrum are significantly different than those present in the reference spectrum. The major ions present in the sample spectrum at m/z 218, 221, and 440 are absent in the reference spectrum. There was no indication of coelution at the retention time for this TIC in the total ion chromatogram for this sample. As such, the tentative identification of widdrene in sample CAN113-B310-0565 was changed to "unknown".

No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.2.3.4 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the surrogate recoveries and the MS/MSD recoveries was satisfactory with the exception of the MS recoveries for 2,4-Dinitrotoluene. Though the recoveries for 2,4-Dinitrotoluene were outside of the control limits, they were not considered to indicate that associated sample results were unsatisfactory. Precision with regard to the sample matrix was satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.2.4 Organochlorine Pesticide/PCBs By Method 8080

Samples were analyzed for pesticide/PCBs. Sample CAN113-B310-1064, was analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.4 were within acceptance limits and no data qualification was required.

4.2.4.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.2.5 Organophosphorus Pesticides By Method 8140

Sample CAN113-B310-1064 was analyzed for organophosphorus pesticides. The QC review parameters outlined in section 4.1.1.5 were within acceptance limits and no data qualification was required.

4.2.5.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.2.6 Herbicides By Method 8150

Samples CAN113-B310-1029, CAN113-B310-1064 and CAN113-B311-1031 were analyzed for herbicides. The QC review parameters outlined in section 4.1.1.6 were within acceptance limits and no data qualification was required.

4.2.6.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.2.7 Metals

Eleven samples were analyzed for metals by SW-846 methodology. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of blanks, laboratory duplicate precision and MS spike recoveries.

4.2.7.1 Blanks

Cadmium was detected in the continuing calibration blanks 1, 2 and 3 analyzed on 8/2/95 at equivalent concentrations of concentrations of -0.35, -0.36 and -0.33 mg/kg, respectively. Similarly cadmium was detected in the CCB1 analyzed 8/3/95 at a concentration of -0.30

mg/kg. These blanks are associated with all the samples in the data package and cadmium results for these samples were all reported as non-detects. Cadmium sample results were qualified as estimated (UJ) due to a potential low bias.

4.2.7.2 Laboratory Duplicates

For sample CAN113-B308-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary. The following samples are associated with this MS/MSD: CAN113-B310-1064.

For sample CAN113-B311-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary. The following samples are associated with this MS/MSD:CAN113-B310-1029, CAN113-B310-1034, CAN113-B310-1044, CAN113-B310-1054, CAN113-B311-1031, CAN113-B311-1035, CAN113-B311-1045 and CAN113-B311-1055.

4.2.7.3 MS/MSD Spike Recoveries

For sample CAN113-B301-1000 MS recoveries for antimony (28%), barium (79%), manganese (144%) and selenium (47%) were outside the acceptance limits specified in section 4.1.1.1. Samples CAN113-B310-1000 and CAN113-B310-0565 are associated with this spike. Manganese results were all reported as detected in the associated sample data and were qualified as estimated due to a high recovery. Barium and selenium results were qualified as estimated (J/UJ) due to low recoveries. Antimony results were reported as non-detects in the associated sample data and were rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B308-1055 MS recoveries for antimony (65%), selenium (68%) and thallium (24%) were outside acceptance limits described in section 4.1.1.1. The following sample is associated with this spike: CAN113-B310-1064. Antimony and selenium were both

reported as non-detects and were qualified as estimated (UJ). Thallium was reported as a non-detect and was rejected (R) due to spike recoveries below 30%.

For sample CAN113-B311-1055 MS recoveries for antimony (62%), calcium (136%), magnesium (126%), selenium (35%) and lead (63%) were outside acceptance limits specified in section 4.1.1.1. The following samples were associated with this spike: CAN113-B310-1029, CAN113-B310-1034, CAN113-B310-1044, CAN113-B310-1054, CAN113-B311-1031, CAN113-B311-1035, CAN113-B311-1045 and CAN113-B311-1055. Calcium and magnesium results were all reported as detected in the associated samples and were qualified as estimated (J) due to high spike recoveries. Antimony, selenium and lead were qualified as estimated (J/UJ) due to low spike recoveries.

4.2.7.4 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the MS recoveries was acceptable with the exception noted in section 4.2.7.3 above. Precision with regard to the sample matrix as measured by the laboratory duplicate samples was satisfactory with the exceptions noted in section 4.2.7.2. Field duplicate results met acceptance criteria indicating satisfactory agreement. Selenium and thallium results for some of the sample data were rejected by the reviewer and are not considered to be useable. All other metals data are considered useable as qualified by the reviewer.

4.2.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Samples were analyzed for TRPH by method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits, and no data qualification was required.

4.2.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met

acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.2.9 Total Organic Carbon (TOC)

Samples CAN113-B310-1044 and CAN113-B311-1055 were analyzed for TOC. The QC review parameters outlined in section 4.1.1.8 were within acceptance limits, and no data qualification was required.

4.2.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.2.10 Sulfide

Sample CAN113-B310-1064 was analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required.

4.2.10.1 Overall Assessment

Accuracy and precision with regard to the method and the matrix as measured by the DCS and MS recoveries and the DCS and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.2.11 Cyanide

Ten samples and one field duplicate were analyzed for cyanide. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits, and no data qualification was required.

4.2.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.3 QC REVIEW DATA PACKAGE 043562

4.3.1 Introduction

Samples were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum hydrocarbons, total organic carbon, cyanide and sulfide. Samples CAN113-B305-1059 was analyzed for the appendix IX list of compounds. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B305-1024	043562-0001-SA
CAN113-B305-1029	043562-0002-SA
CAN113-B305-1039	043562-0003-SA
CAN113-B305-1049	043562-0004-SA
CAN113-B305-1059	043562-0005-SA
CAN113-B304-1000	043562-0006-SA
CAN113-B304-1020	043562-0007-SA
CAN113-B304-1025	043562-0008-SA
CAN113-B304-1035	043562-0009-SA
CAN113-B304-1045	043562-0010-SA
CAN113-B304-1055	043562-0011-SA
CAN113-B311-1065	043562-0012-SA

4.3.2 Volatile Organics By Method 8240

Samples were analyzed for volatile organics by method 8240. Samples CAN113-B305-1059 was analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.2 were within acceptance limits with the exception of blank contamination.

4.3.2.1 Blank Contamination

The method blank 28 JUL 95 H had methylene chloride reported as detected at concentrations of 3.7 µg/kg. Sample CAN113-B305-1059 was associated with this method blank. Methylene chloride value was less than ten times the amount in the method blank and below the reporting limit in the sample and was qualified as non-detect (U) at the reporting limit.

2-Butanone was reported as detected at a concentration of 2.6 µg/kg in the method blank 26 JUL 95 H. The samples associated with this method blank were samples CAN113-B304-1000, CAN113-B304-1020, CAN113-B304-1025, CAN113-B304-1035 and CAN113-B304-1045. 2-Butanone was reported as non-detect in the associated sample data and no data qualification was required.

2-Butanone was reported as detected at a concentration of 1.4 µg/kg in the method blank 28 JUL 95 H. The samples associated with this method blank are CAN113-B304-1055 and CAN113-B304-1065. 2-Butanone results were reported as non-detect and no data qualification was required.

4.3.2.2 Tentatively Identified Compounds (TICs)

Volatile TICs were reported in nine of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B305-1024, CAN113-B305-1029, CAN113-B305-1059, CAN113-B304-1035, CAN113-B304-1045, and CAN113-B304-1055 were qualified as unusable (R). No other reported TIC identifications were considered unacceptable and results were qualified 'NJ', tentatively identified, with approximated concentrations.

4.3.2.3 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.3.3 Semivolatile Organics By Method 8270

Samples were analyzed for semivolatile organics by method 8270. Sample CAN113-B305-1059 was analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.3 were within acceptance limits with the exception of the MS/MSD recoveries.

4.3.1.1 MS/MSD RPDs

All associated MS/MSD recoveries and RPDs were within acceptance limits with the exception of the MS/MSD recoveries for sample CAN113-B308-1055.

For sample CAN113-B308-1055 MS/MSD recoveries for 2,4-Dinitrotoluene were 38% and 37%, respectively below the 39-139% acceptance limits. The samples associated with this MS/MSD are: CAN113-B304-1055 and CAN113-B305-1059. Since these recoveries were just slightly below the acceptance limits, and all associated QA/QC were within acceptance limits, no data qualification was considered necessary.

4.3.3.2 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in five of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in sample CAN113-B304-1000 and for phthalates (common laboratory contaminant) in sample CAN113-B305-1024 were qualified as unusable (R).

The identification of 3-methoxy-(3.beta.)-D-friedoolean-14-ene in samples CAN113-B304-1000 ((RT = 23.578 min) and CAN113-B304-1045 (RT = 23.751 min) was considered to be unacceptable by the data reviewer. For both samples, the relative intensities for several major ions (i.e., greater than 10% relative intensity) at m/z 41 to m/z 95 in the sample spectrum and the ratios of relative intensities between these peaks and the base peak (m/z = 204) are significantly different than those present in the reference spectrum. There was no indication of coelution at the retention time for this TIC in the total ion chromatograms for these two samples. As such, the tentative identification of 3-methoxy-(3.beta.)-D-friedoolean-14-ene in samples CAN113-B304-1000 and CAN113-B304-1045 was changed to "unknown".

The identification of germanicol in sample CAN113-B304-1045 (RT = 23.956 min) was considered unacceptable by the data reviewer. The sample spectrum has major ion peaks (i.e., greater than 10% relative intensity) at m/z 231, 281, 426 and 440 that are absent or minor in the reference spectrum. The major ion at m/z 131 in the reference spectrum is absent from the sample spectrum and the relative intensities for several moderate to strong intensity peaks at m/z 41 to m/z 189 in the sample spectrum are significantly different than those present in the reference spectrum. There was no indication of coelution at the retention time for this TIC in the total ion chromatogram for this sample. As such, the tentative identification of germanicol in sample CAN113-B304-1045 has been changed to "unknown".

The identification of 5,10-dihydro-6,7-dimethyl-4H-benzo[5,6]cyclohepta[1,2-b]-furan-10-one in sample CAN113-B305-1024 (RT = 18.717 min) was considered unacceptable by the data reviewer. The sample spectrum has major ion peaks (i.e., greater than 10% relative intensity) at m/z 151, 152, 165, and 194 that are absent in the reference spectrum. The relative intensities for the major ions in the reference spectrum at approximately m/z 155, 183, 198, and 211 are significantly different than those present in the sample spectrum. There was no indication of coelution at the retention time for this TIC in the total ion chromatograms for this sample. As such, the tentative identification of 5,10-dihydro-6,7-dimethyl-4H-benzo[5,6]cyclohepta[1,2-b]-furan-10-one in sample CAN113-B305-1024 has been changed to "unknown".

No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.3.3.3 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the surrogate recoveries and the MS/MSD recoveries were satisfactory with the exception of MS/MSD recoveries for 2,4-Dinitrotoluene which did not meet acceptance limits but was not considered to indicate that associated sample results were unsatisfactory. Precision with regard to the sample matrix was satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.3.4 Organochlorine Pesticide/PCBs By Method 8080

Samples were analyzed for pesticide/PCBs by method 8080. Sample CAN113-B305-1059 was analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.4 were within acceptance limits and no data qualification was required.

4.3.4.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.3.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B305-1059, CAN113-B304-1055 and CAN113-B304-1065 were analyzed for organophosphorus pesticides. The QC review parameters outlined in section 4.1.1.5 were within acceptance limits with the exception of SCS recoveries.

4.3.5.1 Single Control Sample (SCS) Recoveries

The surrogate ethyl pirimifos had a recovery of 25% below the acceptance limits of 50-150% in the associated SCS. As all the surrogate recoveries were within acceptance limits in the associated sample data, no data qualification was considered necessary.

4.3.5.2 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory with the exception noted above. Though the SCS had one surrogate recovery outside of acceptance limits it was not considered to indicate that associated sample results were unsatisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.3.6 Herbicides by Method 8150

Samples CAN113-B305-1024, CAN113-B305-1059, CAN113-B304-1020, CAN113-B304-1055 and CAN113-B304-1065 were analyzed for herbicides. The QC review parameters outlined in section 4.1.1.6 were within acceptance limits and no data qualification was required.

4.3.6.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries, MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.3.7 Metals

Samples were analyzed for metals by SW-846 methodology. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of laboratory duplicate precision and MS spike recoveries.

4.3.7.1 Laboratory Duplicates

For sample CAN113-B308-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. The following samples are associated with this MS/MSD: CAN113-B304-1055 and CAN113-B305-1059. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary.

For sample CAN113-B311-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. The following samples are associated with this MS/MSD: CAN113-B305-1024, CAN113-B305-1029, CAN113-B305-1039, CAN113-B305-1049, CAN113-B304-1020, CAN113-B304-1025, CAN113-B304-1035 and CAN113-B304-1045. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary.

4.3.7.2 MS/MSD Spike Recoveries

For sample CAN113-B301-1000 MS recoveries for antimony (28%), barium (79%), manganese (144%) and selenium (47%) were outside the acceptance limits specified in section 4.1.1.1. Sample CAN113-B304-1000 is associated with this spike. Manganese was reported as detected in the associated sample and was qualified as estimated due to a high recovery. Barium and selenium results were qualified as estimated (J/UJ) due to low recoveries. Antimony was reported as non-detect in the associated sample and was rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B308-1055 MS recoveries for antimony (65%), selenium (68%) and thallium (24%) were outside acceptance limits specified in section 4.1.1.1. The following

samples were associated with this spike: CAN113-B304-1055, CAN113-B305-1059 and CAN113-B311-1065. Antimony and selenium results were reported as non-detect in the associated sample data and were qualified as estimated (UJ) due to low spike recoveries. Thallium was reported as detected in sample CAN113-B304-1055 and was qualified as estimated (J) due to a spike recovery less than 30%. Thallium was reported as non-detect in samples CAN113-B305-1059 and CAN113-B311-1065 and were rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B311-1055 MS recoveries for antimony (62%), calcium (136%), magnesium (126%), selenium (35%) and lead (63%) were outside acceptance limits specified in section 4.1.1.1. The following samples are associated with this spike: CAN113-B305-1024, CAN113-B305-1029, CAN113-B305-1039, CAN113-B305-1049, CAN113-B304-1020, CAN113-B304-1025, CAN113-B304-1035 and CAN113-B304-1045. Calcium and magnesium results were all reported as detected in the associated sample data and were qualified as estimated (J) due to high spike recoveries. Antimony, selenium and lead were qualified as estimated (J/UJ) due to low spike recoveries

4.3.7.3 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the MS recoveries was acceptable with the exception noted in section 4.3.7.2 above. Precision with regard to the sample matrix as measured by the laboratory duplicate samples was satisfactory with the exceptions noted in section 4.3.7.1 above. Field duplicate results met acceptance criteria indicating satisfactory agreement. Two antimony results and one thallium result reported as non-detects were rejected by the reviewer and are not considered to be useable. All other metals data are considered useable as qualified by the reviewer.

4.3.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Samples were analyzed for TRPH by method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits, and no data qualification was required.

4.3.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.3.9 Total Organic Carbon (TOC)

Samples CAN113-B305-1039 and CAN113-B304-1035 were analyzed for TOC. The QC review parameters outlined in section 4.1.1.8 were within acceptance limits, and no data qualification was required.

4.3.9.1 Overall Assessment

Accuracy and precision with regard to the method and the matrix as measured by the DCS recoveries, MS recoveries and DCS and laboratory duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.3.10 Sulfide

Samples CAN113-B305-1059, CAN113-B304-1055 and CAN113-B304-1065 were analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required

4.3.10.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the method as measured by the matrix spike recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate

results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.3.11 Cyanide

Samples were analyzed for cyanide. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits, and no data qualification was required.

4.3.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recovery and laboratory duplicate RPD were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.4 QC REVIEW DATA PACKAGE 043608

4.4.1 Introduction

Samples were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum hydrocarbons, total organic carbon, cyanide and sulfide. Samples CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055 were analyzed for the appendix IX list of compounds. Sample CAN113-B308-1055 was used for the matrix spike, and laboratory duplicate. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B307-1000	043608-0001-SA
CAN113-B307-1024	043608-0002-SA
CAN113-B307-1029	043608-0003-SA

CAN113-B307-1039	043608-0004-SA
CAN113-B307-1049	043608-0005-SA
CAN113-B307-1059	043608-0006-SA
CAN113-B307-0562	043608-0007-SA (field duplicate of sample CAN113B307-1059)
CAN113-B308-1020	043608-0008-SA
CAN113-B308-1025	043608-0009-SA
CAN113-B308-0563	043608-0010-SA (field duplicate of sample CAN113-B308-1025)
CAN113-B308-1035	043608-0011-SA
CAN113-B308-1045	043608-0012-SA
CAN113-B308-1055	043608-0013-SA

4.4.2 Volatile Organics By Method 8240

Samples were analyzed for volatile organics by method 8240. Samples CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.2 were within acceptance limits with the exception of blank contamination.

4.4.2.1 Blank Contamination

The method blank 27 JUL 95 H had 2-Butanone reported as detected at concentrations of 1.4 µg/kg. Samples CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055 were associated with this method blank. 2-Butanone results were reported as non-detect in the associated samples and no data qualification was required.

4.4.2.2 Tentatively Identified Compounds (TICs)

Volatile TICs were reported in four of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B307-1029, CAN113-B307-1059, and CAN113-B307-0562 were qualified as unusable (R). No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.4.2.3 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and associated MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.4.3 Semivolatile Organics By Method 8270

Samples were analyzed for semivolatile organics by method 8270. Samples CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.3 were within acceptance limits with the exception of blank contamination and MS/MSD precision.

4.4.3.1 Blank Contamination

The method blank 03 AUG 95 S1 had diethyl phthalate reported as detected at concentrations of 88 µg/kg. The following samples were associated with this blank: CAN113-B307-1000, CAN113-B307-1024, CAN113-B307-1029, CAN113-B307-1039, CAN113-B307-1049, CAN113-B308-1020, CAN113-B308-1025, CAN113-B308-0563, CAN113-B308-1035 and CAN113-B308-1045. Diethyl phthalate results were reported as non-detect in the associated samples except for sample CAN113-B308-1045 in which it was reported as detected at a concentration less than the reporting limit. For sample CAN113-B308-1045, diethyl phthalate was qualified as non-detect (U) at the reporting limit due to method blank contamination. No other data qualification was required.

The method blank 28 JUL 95 S1 had diethyl phthalate reported as detected at concentrations of 41 µg/kg. The following samples were associated with this blank: CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055. Diethyl phthalate results were reported as non-detect in the associated samples and no data qualification was required.

4.4.3.2 MS/MSD Recoveries

All associated MS/MSD recoveries and RPDs were within acceptance limits with the exception of the recoveries for CAN113-B308-1055 MS/MSD. The samples in this data package associated with this spike are CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055. For sample CAN113-B308-1055 MS/MSD, the respective 2,4-Dinitrotoluene recoveries of 38% and 37% were slightly below the acceptance limits of 39-139%. As all other QC criteria were within acceptance limits, and the MS/MSD recoveries were just below the acceptance criteria, no data qualification was considered necessary.

4.4.3.3 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in seven of the samples. The result reported for siloxane (common laboratory artifact attributed to column bleed) in sample CAN113-B307-1059 was qualified as unusable (R).

The identification of 3-methoxy-(3.beta.)-D-friedoolean-14-ene in sample CAN113-B307-1000 (RT = 23.566 min) was considered to be unacceptable by the data reviewer. The relative intensities for several major ions (i.e., greater than 10% relative intensity) at m/z 41 to m/z 140 in the sample spectrum are significantly different than those present in the reference spectrum (see TIC reference spectrum for 3-methoxy-(3.beta.)-D-friedoolean-14-ene in data package 43562, sample 43562-10). As such, the tentative identification of 3-methoxy-(3.beta.)-D-friedoolean-14-ene in sample CAN113-B307-1000 was changed to "unknown"

The sample spectrum for the TIC reported for sample CAN113-B307-1024 at a retention time of 19.240 minutes is consistent with a potential coelution between (3.beta., 21.(beta.)-a'-neogammacer-22(29)-en-3-ol and tetracosamethylcyclododecasiloxane. The reported concentration of (3.beta., 21.(beta.)-a'-neogammacer-22(29)-en-3-ol is considered to be biased high.

The laboratory reported two TICs at retention times of 20.646 and 20.825 minutes for sample CAN113-B307-1024. The laboratory provided a tentative identification of these TICs as (3.beta., 21.(beta.)-a'-neogammacer-22(29)-en-3-ol acetate and hop-22(29)-en-3.beta.-ol,

respectively. In the judgment of the data reviewer, the identification of hop-22(29)-en-3.beta.-ol for the TIC at 20.825 minutes was considered unacceptable. The sample spectrum had major ions (i.e., greater than 10% relative intensity) at m/z 249, 408, and 468 that were not present in the reference spectrum and had a more complex fragmentation pattern at m/z 50 through m/z 200 than was present in the reference spectrum. The sample spectrum was, however, consistent with (3.beta., 21.(beta.)-a'-neogammacer-22(29)-en-3-ol acetate (the secondary library search compound match). As the spectra for both TICs (20.646 and 20.825 min) were consistent with the reference spectrum for (3.beta., 21.(beta.)-a'-neogammacer-22(29)-en-3-ol acetate, it is the professional judgment of the data reviewer that these two TICs are likely neogammacer-en-ol isomers. As such, the identification of hop-22(29)-en-3.beta.-ol for the TIC at 20.825 minutes was changed to neogammacer-en-ol isomer and the identification of (3.beta., 21.(beta.)-a'-neogammacer-22(29)-en-3-ol acetate for the TIC at 20.646 minutes was also changed to neogammacer-en-ol isomer.

No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.4.3.4 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the surrogate recoveries and the MS/MSD recoveries was satisfactory with the exception of 2,4-Dinitrotoluene. Though the recoveries for 2,4-Dinitrotoluene were outside of the control limits, they were not considered to indicate that associated sample results were unsatisfactory. Precision with regard to the sample matrix was satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.4.4 Organochlorine Pesticide/PCBs By Method 8080

Samples were analyzed for pesticide/PCBs. Samples CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055 were analyzed for the appendix IX list of compounds. The

QC review parameters outlined in section 4.1.1.4 were within acceptance limits and no data qualification was required.

4.4.4.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.4.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055 were analyzed for organophosphorus pesticides. The QC review parameters outlined in section 4.1.1.5 were within acceptance limits and no data qualification was required.

4.4.5.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.4.6 Herbicides By Method 8150

Samples CAN113-B307-1024, CAN113-B307-1059, CAN113-B307-0562, CAN113-B308-1020 and CAN113-B308-1055 were analyzed for herbicides. The QC review parameters outlined in section 4.1.1.6 were within acceptance limits and no data qualification was required.

4.4.6.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.4.7 Metals

Samples were analyzed for metals by SW-846 methodology. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of blank contamination, laboratory duplicate precision and MS spike recoveries.

4.4.7.1 Blanks

The Continuing Calibration Blank for tin was reported as detected at an equivalent concentration of 14 mg/kg. Sample CAN113-B308-1055 was associated with this blank and its tin result was reported as non-detect. No data qualification was required.

4.4.7.2 Laboratory Duplicates

For sample CAN113-B308-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary. The following samples are associated with this MS/MSD: CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055.

For sample CAN113-B322-1035 laboratory duplicate precision for barium (40%) and manganese (24%) exceeded the RPD limit specified in section 4.1.1.1. Manganese and barium results were qualified as estimated (J/UJ) in the associated sample data due to unsatisfactory precision. The following samples are associated with this duplicate: CAN113-B307-1024, CAN113-B307-1029, CAN113-B307-1039 and CAN113-B307-1049.

For sample CAN113-B329-1020 laboratory duplicate precision for aluminum (29%), barium (30%) and iron (32%) exceeded the RPD limits specified in section 4.1.1.1. Aluminum, barium and iron results were qualified as estimated (J/UJ) due to unsatisfactory precision. The following samples were associated with this duplicate: CAN113-B308-1020, CAN113-B308-1025, CAN113-B308-0563, CAN113-B308-1035 and CAN113-B308-1045.

4.4.7.3 MS/MSD Spike Recoveries

For sample CAN113-B301-1000 MS recoveries for antimony (28%), barium (79%), manganese (144%) and selenium (47%) were outside the acceptance limits specified in section 4.1.1.1. Sample CAN113-B307-1000 is associated with this spike. Manganese was reported as detected and was qualified as estimated due to a high recovery. All barium and selenium results in associated samples were qualified as estimated (J/UJ) due to low recoveries. Antimony was reported as non-detect and was rejected (R) due to a spike recovery below 30%.

For sample CAN113-B308-1055 MS recoveries for antimony (65%), selenium (68%) and thallium (24%) were outside acceptance limits described in section 4.1.1.1. The following samples are associated with this spike: CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055. All antimony and selenium results in the associated samples were qualified as estimated (J/UJ) due to low recoveries. Thallium was reported as detected in sample CAN113-B307-1059 and was qualified as estimated. Thallium results were reported as non-detects in samples CAN113-B307-0562 and CAN113-B308-1055 and were qualified as unusable (R) due to spike recoveries less than 30%.

For sample CAN113-B322-1035 MS recoveries for antimony (134%), selenium (59%) and thallium (39%) were outside the acceptance limits specified in section 4.1.1.1. The following samples are associated with this spike: CAN113-B307-1024, CAN113-B307-1029, CAN113-B307-1039 and CAN113-B307-1049. Antimony was reported as non-detect in all associated samples and no qualification was required due to a potential high bias. Selenium and thallium results were qualified as estimated (J/UJ) due to low recoveries.

For sample CAN113-B329-1020 MS recoveries for antimony (52%), manganese (121%), silver (79%), selenium (61%) and thallium (31%) were outside of the acceptance limits specified in section 4.1.1.1. The following samples are associated with this spike: CAN113-B308-1020, CAN113-B308-1025, CAN113-B308-0563, CAN113-B308-1035 and CAN113-B308-1045. Manganese was reported as detected in the associated samples and these results were qualified as estimated (J) due to a high recovery. Antimony, silver, selenium and thallium results were qualified as estimated (J/UJ) due to low recoveries.

4.4.7.4 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the MS recoveries was acceptable with the exception noted in section 4.4.7.3 above. Precision with regard to the sample matrix as measured by the laboratory duplicate samples was satisfactory with the exceptions noted in section 4.4.7.2. Field duplicate results met acceptance criteria indicating satisfactory agreement. The antimony result for one sample was rejected by the reviewer and is not considered to be useable. All other metals data are considered useable as qualified by the reviewer.

4.4.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Samples were analyzed for TRPH by method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits, and no data qualification was required.

4.4.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.4.9 Total Organic Carbon (TOC)

Samples CAN113-B307-1039, CAN113-B308-1025 and CAN113-B308-0563 were analyzed for TOC. The QC review parameters outlined in section 4.1.1.8 were within acceptance limits, and no data qualification was required.

4.4.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.4.10 Sulfide

Samples CAN113-B307-1059, CAN113-B307-0562 and CAN113-B308-1055 were analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required.

4.4.10.1 Overall Assessment

Accuracy and precision with regard to the method and the matrix as measured by the DCS and MS recoveries and the DCS and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.4.11 Cyanide

Samples were analyzed for cyanide. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits, and no data qualification was required.

4.4.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.5 QC REVIEW - DATA PACKAGE 043618

4.5.1 Introduction

Samples were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum hydrocarbons, total organic carbon, cyanide and sulfide. Samples CAN113-B329-1050 and CAN113-B328-1055 were analyzed for the appendix IX list of compounds. Sample CAN113-B329-1020 was used for the matrix spike, and laboratory duplicate. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B329-1014	043618-0001-SA
CAN113-B329-1020	043618-0002-SA MS/MSD
CAN113-B329-1030	043618-0003-SA
CAN113-B329-1040	043618-0004-SA
CAN113-B329-1050	043618-0005-SA
CAN113-B328-1000	043618-0006-SA
CAN113-B328-1020	043618-0007-SA
CAN113-B328-1025	043618-0008-SA
CAN113-B328-1035	043618-0009-SA
CAN113-B328-1045	043618-0010-SA
CAN113-B328-1055	043618-0011-SA

4.5.2 Volatile Organics By Method 8240

Samples were analyzed for volatile organics by method 8240. Samples CAN113-B329-1050 and CAN113-B328-1055 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.2 were within acceptance limits with the exception of field duplicate agreement.

4.5.2.1 Calibration

The continuing calibration reported for instrument J on 07/28/95 was associated with the analysis of the Appendix IX analytes for samples CAN113-B328-1055 and CAN113-B329-1050. The instrument sensitivity for 1,4-dioxane decreased from the initial to the continuing calibration and the %D between the initial and continuing calibration was 28%, exceeding the criterion of 25%. It is the judgment of the data reviewer that the reporting limits for 1,4-dioxane do not sufficiently reflect the decrease in sensitivity of the analytical method and, therefore, the reporting limits for 1,4-dioxane for samples CAN113-B328-1055 and CAN113-B329-1050 have been raised proportionately to the decrease in sensitivity to 720 ug/Kg and 770 ug/Kg, respectively, and qualified as estimated (UJ).

4.5.2.2 Field Duplicates

For the field duplicate pair CAN113-B326-1021 and CAN113-B326-0567, all volatile target compounds were within acceptance limits with the exception of acetone. The samples associated with this field duplicate pair are: CAN113-B329-1014 and CAN113-B329-1020. The acetone results were 120 mg/kg for the sample and 3.4 mg/kg for its duplicate. This exceeds the 3X the reporting limit acceptance criterion and the associated acetone sample data were qualified as estimated (J/UJ).

4.5.2.3 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and associated MS/MSD

recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement with the exception of acetone. The sample data are considered useable as qualified by the reviewer.

4.5.3 Semivolatile Organics By Method 8270

Samples were analyzed for semivolatile organics by method 8270. Samples CAN113-B329-1050 and CAN113-B328-1055 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.3 were within acceptance limits with the exception of holding times, blank contamination, surrogate recoveries and MS/MSD recoveries.

4.5.3.1 Holding Times

Sample CAN113-B329-1020 was originally analyzed within holding times, however, the surrogate recoveries and the associated MS/MSD recoveries were low. The samples were re-extracted 4 days outside of holding time and re-analyzed. These reanalyses had satisfactory surrogate recoveries and MS/MSD recoveries. Only the re-analyses were included in the summary data package. All results for this sample were reported as non-detected and were qualified as estimated (UJ) due to a potential low bias.

4.5.3.2 Blank Contamination

The method blank 28 JUL 95 S1 had diethyl phthalate reported as detected at concentration of 41 µg/kg. The following samples were associated with this blank: CAN113-B329-1050 and CAN113-B328-1055. Diethyl phthalate results were reported as non-detect in the associated samples and no data qualification was required.

4.5.3.3 Surrogate Recoveries

The surrogate recoveries for the original analysis of sample CAN113-B329-1020 were low as indicated in the case narrative. The sample was re-extracted outside of holding times, re-

analyzed and had satisfactory surrogate recoveries. Only the re-extracted sample analysis was reported by the laboratory in the summary data package.

4.5.3.4 MS/MSD Recoveries

All associated MS/MSD recoveries and RPDs were within acceptance limits with the exception of the recoveries for CAN113-B308-1055 MS/MSD and the original extraction of sample CAN113-B329-1020 which was not reported in the data package. The samples in this data package associated with this CAN113-B308-1055 MS/MSD are CAN113-B329-1050 and CAN113-B328-1055. For sample CAN113-B308-1055 MS/MSD, the 2,4-Dinitrotoluene recoveries of 38% and 37% were slightly below the acceptance limits of 39-139%. As all other QC criteria were within acceptance limits, and the MS/MSD recoveries were just below the acceptance criteria, no data qualification was considered necessary.

4.5.3.5 Tentatively Identified Compounds

Semivolatile TICs were reported in surface soil sample CAN113-B328-1000. No reported TIC identifications were considered unacceptable and all TIC results were qualified 'NJ', tentatively identified, with approximate concentrations.

4.5.3.6 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the surrogate recoveries and the MS/MSD recoveries was satisfactory with the exception of 2,4-Dinitrotoluene recoveries in one MS/MSD. Though the recoveries for 2,4-Dinitrotoluene were outside of the control limits, they were not considered to indicate that associated sample results were unsatisfactory. Precision with regard to the sample matrix was satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.5.4 Organochlorine Pesticide/PCBs By Method 8080

Samples were analyzed for pesticide/PCBs. Samples CAN113-B329-1050 and CAN113-B328-1055 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.4 were within acceptance limits and no data qualification was required.

4.5.4.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.5.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B329-1050 and CAN113-B328-1055 were analyzed for organophosphorus pesticides. The QC review parameters outlined in section 4.1.1.5 were within acceptance limits and no data qualification was required.

4.5.5.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.5.6 Herbicides By Method 8150

Samples CAN113-B329-1014, CAN113-B329-1050, CAN113-B328-1020 and CAN113-B328-1055 were analyzed for herbicides. The QC review parameters outlined in section 4.1.1.6 were within acceptance limits and no data qualification was required.

4.5.6.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.5.7 Metals

Samples were analyzed for metals by SW-846 methodology. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of blank contamination, duplicate control samples, laboratory duplicate precision and MS spike recoveries.

4.5.7.1 Blanks

The Continuing Calibration Blank #2 (CCB2) analyzed 8/11/95 associated with samples CAN113-B329-1030, CAN113-B329-1050, CAN113-B328-1000, CAN113-B328-1035, CAN113-B328-1045 and CAN113-B328-1055 had cadmium detected at an equivalent concentration of -0.39 mg/kg. The associated samples all had cadmium reported as non-detect. This potential bias can result in false negative results, therefore, these sample data were qualified as estimated (UJ).

4.5.7.2 Duplicate Control Samples

The DCS recoveries for tin exceeded the acceptance limits described in section 4.1.1.1. in the DCS associated with samples CAN113-B329-1050 and CAN113-B328-1055. Recovery of tin in one of these two duplicate control samples was 158% and the other was 111% with an RPD of 35%. Tin was reported as non-detect in the associated samples and no data qualification was considered necessary.

4.5.7.3 Laboratory Duplicates

For sample CAN113-B308-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. The following samples are associated with this MS/MSD: CAN113-B329-1050 and CAN113-B328-1055. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary.

For sample CAN113-B329-1020 laboratory duplicate precision for aluminum (29%), barium (30%) and iron (32%) exceeded the RPD limits specified in section 4.1.1.1. The following samples were associated with this duplicate: CAN113-B328-1020, CAN113-B328-1025, CAN113-B328-1035, CAN113-B328-1045, CAN113-B329-1014, CAN113-B329-1020, CAN113-B329-1030 and CAN113-B329-1040. Aluminum, barium and iron results were all reported as detected and were qualified as estimated (J) due to unsatisfactory precision.

4.5.7.4 MS/MSD Spike Recoveries

For sample CAN113-B301-1000 MS recoveries for antimony (28%), barium (79%), manganese (144%) and selenium (47%) were outside the acceptance limits specified in section 4.1.1.1. Sample CAN113-B328-1000 is associated with this spike. Manganese was reported as detected and was qualified as estimated due to a high recovery. Barium and selenium results were qualified as estimated (J/UJ) due to low recoveries. Antimony was reported as a non-detect and was rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B308-1055 MS recoveries for antimony (65%), selenium (68%) and thallium (24%) were outside acceptance limits specified in section 4.1.1.1. The following samples were associated with this spike: CAN113-B329-1050 and CAN113-B328-1055. Antimony and selenium results were qualified as estimated (J/UJ) due to low spike recoveries. Thallium results were reported as non-detect in the associated sample data and were rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B329-1020 MS recoveries for antimony (52%), manganese (121%), silver (79%), selenium (61%) and thallium (31%) were outside of the acceptance limits

specified in section 4.1.1.1. The following samples were associated with this spike: CAN113-B328-1020, CAN113-B328-1025, CAN113-B328-1035, CAN113-B328-1045, CAN113-B329-1014, CAN113-B329-1020, CAN113-B329-1030 and CAN113-B329-1040. Manganese results were reported as detected in the associated sample data and were qualified as estimated (J) due to a high recovery. Antimony, silver, selenium and thallium results were qualified as estimated (J/UJ) in the associated sample data due to low recoveries.

4.5.7.5 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory with the exception of tin. Although the DCS recovery and RPDs exceeded the acceptance limits, associated sample data were not considered to be unsatisfactory. Accuracy with regard to the matrix, as measured by the MS recoveries was acceptable with the exceptions noted in section 4.5.7.4 above. Precision with regard to the sample matrix as measured by the laboratory duplicate samples was satisfactory with the exceptions noted in section 4.5.7.3. Field duplicate results met acceptance criteria indicating satisfactory agreement. One antimony results and two thallium results were rejected by the reviewer and are not considered to be useable. All other metals data are considered useable as qualified by the reviewer.

4.5.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Samples were analyzed for TRPH by method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits, and no data qualification was required.

4.5.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.5.9 Total Organic Carbon (TOC)

Samples CAN113-B329-1014 and CAN113-B328-1000 were analyzed for TOC. The QC review parameters outlined in section 4.1.1.8 were within acceptance limits, and no data qualification was required.

4.5.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.5.10 Sulfide

Samples CAN113-B329-1050 and CAN113-B328-1055 were analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required.

4.5.10.1 Overall Assessment

Accuracy and precision with regard to the method and the matrix as measured by the DCS and MS recoveries and the DCS and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.5.11 Cyanide

Samples were analyzed for cyanide. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits, and no data qualification was required.

4.5.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.6 QUALITY CONTROL REVIEW - SDG 043619

4.6.1 Introduction

Samples were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum hydrocarbons, total organic carbon, cyanide, and sulfide. Samples CAN113-B326-1055, CAN113-B330-1050, and CAN113-B327-1056 were analyzed for the Appendix IX list of compounds. There were no anomalies associated with sample receipt. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B326-1021	043619-0001-SA
CAN113-B326-0567	043619-0002-SA (field duplicate of sample CAN113-B326-1021)
CAN113-B326-1027	043619-0003-SA
CAN113-B326-1037	043619-0004-SA
CAN113-B326-1047	043619-0005-SA
CAN113-B326-1055	043619-0006-SA
CAN113-B330-1014	043619-0007-SA
CAN113-B330-1020	043619-0008-SA
CAN113-B330-0568	043619-0009-SA (field duplicate of sample CAN113-B330-1030)
CAN113-B330-1030	043619-0010-SA
CAN113-B330-1040	043619-0011-SA
CAN113-B330-1050	043619-0012-SA

CAN113-B327-1021	043619-0013-SA
CAN113-B327-1024	043619-0014-SA
CAN113-B327-1034	043619-0015-SA
CAN113-B327-1044	043619-0016-SA
CAN113-B327-1056	043619-0017-SA

The result forms for the volatile organics were originally submitted as wet weight. The laboratory provided corrected volatile result forms with the results reported on a dry weight basis as well as an amended case narrative as resubmissions.

4.6.2 Volatile Organics By Method 8240

Samples were analyzed for volatile organics by Method 8240. The QC review parameters outlined in Section 4.1.1.2 were within acceptance limits with the exception of blank contamination and field duplicate precision.

4.6.2.1 Calibration

The continuing calibration reported for instrument J on 07/29/95 was associated with the analysis of the Appendix IX analytes for sample CAN113-B327-1056. The instrument sensitivities for acetonitrile and isobutanol decreased from the initial to the continuing calibration and the %Ds between the initial and continuing calibration were 32 and 62%, respectively, exceeding the criterion of 25% for these analytes. It is the judgment of the data reviewer that the reporting limits for acetonitrile and isobutanol do not sufficiently reflect the decrease in sensitivity of the analytical method and, therefore, the reporting limits for acetonitrile and isobutanol for sample CAN113-B327-1056 have been raised proportionately to the decrease in sensitivity to 310 ug/Kg and 560 ug/Kg, respectively, and qualified as estimated (UJ).

4.6.2.2 Blank Contamination

Method blank 28 JUL 95-H had methylene chloride reported at 3.7 µg/kg. Samples associated with this method blank were CAN113-B326-1037, CAN113-B326-1047,

CAN113-B26-1055, CAN113-B330-1014, CAN113-B330-1020, CAN113-B330-0568, CAN113-B330-1030, CAN113-B330-1040, CAN113-B330-1050, CAN113-B327-1021, CAN113-B327-1024 and CAN113-B327-1034. All samples except for CAN113-B327-1024 and CAN113-B327-1034 had methylene chloride results reported as non-detect and no data qualification was required. Samples CAN113-B327-1024 and CAN113-B327-1034 had methylene chloride reported as detected below the reporting limit and at concentrations below 10X the associated blank contamination and were qualified as non-detect (U) at the reporting limit. In addition, the laboratory failed to add the B flag to these samples. This flag was added by the reviewer.

4.6.2.3 Field Duplicate Agreement

For the field duplicate pair CAN113-B326-1021 and CAN113-B326-0567, all volatile target compounds were within acceptance limits with the exception of acetone. The samples associated with this field duplicate pair are: CAN113-B326-1021, CAN113-B326-0567, CAN13-B327-1027, CAN113-B326-1037 and CAN113-B326-1047. The acetone results were 120 mg/kg for the sample and 3.4 mg/kg for its duplicate. This exceeds the 3X the reporting limit acceptance criteria and the associated sample data were qualified as estimated (J/UJ).

4.6.2.4 Tentatively Identified Compounds (TICs)

Volatile TICs were reported in ten of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B330-1020, CAN113-B330-0568, CAN113-B330-1030, CAN113-B330-1040, CAN113-B330-1050, CAN113-B327-1021, CAN113-B327-1024, and CAN113-B327-1034 were qualified as unusable (R). No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.6.2.5 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and MS/MSD recoveries

and RPDs were satisfactory. Field duplicate precision was outside of control limits for acetone, but did not indicate associated sample results for acetone were unsatisfactory. The sample data are considered useable as qualified by the reviewer.

4.6.3 Semivolatile Organics By Method 8270

Samples were analyzed for semivolatile organics by Method 8270. The QC review parameters outlined in Section 4.1.1.3 were within acceptance limits with the exception of holding times; and blank contamination.

4.6.3.1 Holding Times

CAN113-B327-1021 was prepared and analyzed within holding times, but resulted in surrogate recoveries below the control limits. The sample was re-extracted 6 days past the holding time specified in section 4.1.1.3, but had satisfactory surrogate recoveries; the reanalysis data were reported by the laboratory. The semivolatile results for this sample were reported as non-detect and were qualified as estimated (UJ) due to holding time criteria exceedance.

4.6.3.2 Blank Contamination

Method blank 28 JUL 95-S1 had diethyl phthalate reported at 41 µg/kg. The following samples are associated with this blank: CAN113-B330-1050, CAN113-B326-1055 and CAN113-B327-1056. Diethyl phthalate results were reported as non-detect in the associated samples and did not require qualification.

4.6.3.3 Matrix Spike/Matrix Spike Duplicate

For sample CAN113-B308-1055 MS/MSD recoveries for 2,4-Dinitrotoluene were 38% and 37%, respectively below the 39-139% acceptance limits. The samples associated with this MS/MSD are: CAN113-B326-1055, CAN113-B327-1056 and CAN113-B330-1050. Since these recoveries were just below the acceptance limits, and all associated QA/QC were within acceptance limits, no data qualification was considered necessary.

4.6.3.4 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in two of the samples. No reported TIC identifications were considered unacceptable and results were qualified 'NJ', tentatively identified, with approximated concentrations.

4.6.3.5 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory with the exception of the recoveries for 2,4-Dinitrotoluene. Though these recoveries were outside the acceptance limits, they are not considered to provide unsatisfactory results in the associated samples. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.6.4 Organochlorine Pesticides/PCBs By Method 8080

Samples were analyzed for organochloride pesticides. The QC review parameters outlined in Section 4.1.1.4 were within acceptance limits and no data qualification was necessary.

4.6.4.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are useable as reported by the laboratory.

4.6.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B326-1055, CAN113-B330-1050 and CAN113-B327-1056 were analyzed for organophosphorus pesticides by Method 8140. The QC review parameters outlined in Section 4.1.1.5 were within acceptance limits and no data qualification was required.

4.6.5.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are useable as reported by the laboratory.

4.6.6 Herbicides By Method 8150

Samples CAN113-B326-1021, CAN113-B326-0567, CAN113-B326-1055, CAN113-B330-1014, CAN113-B330-1050, CAN113-B327-1021, and CAN113-B327-1056 were analyzed for herbicides by Method 8150. The QC review parameters outlined in Section 4.1.1.6 were within acceptance limits and no data qualification was required.

4.6.6.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, and surrogate recoveries were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are useable as reported by the laboratory.

4.6.7 Metals

Samples were analyzed for metals by SW-846 6000/7000 series. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of blank contamination, field duplicate precision, laboratory duplicate precision and matrix spike recoveries.

4.6.7.1 Blanks

The initial calibration blank analyzed 8/11/95 associated with all samples in this data package had cadmium detected at an equivalent concentration of -0.28 mg/kg. Cadmium results were

reported as non-detect in the associated sample data. This potential bias can result in false negative results, therefore, these sample data were qualified as estimated (UJ).

The continuing calibration blank analyzed 8/11/95 associated with samples CAN113-B326-1027, CAN113-B330-1020, and CAN113-B330-0568 had sodium detected at an equivalent concentration of -277 mg/kg. Sodium results wee reported as non-detect in the associated sample data. This potential bias can result in false negative results, therefore, these sample data were qualified as estimated (UJ).

4.6.7.2 Laboratory Duplicates

For sample CAN113-B308-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. The following samples are associated with this MS/MSD: CAN113-B326-1055, CAN113-B327-1057 and CAN113-B330-1050. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary.

For sample CAN113-B325-1030 laboratory duplicate precision for chromium (45%), zinc (59%), nickel (32%), manganese (21%), iron (26%) and lead (165%) exceeded the RPD limits specified in section 4.1.1.1. The following samples were associated with this duplicate: CAN113-B326-1021, CAN113-B326-0567, CAN113-B326-1027, CAN113-B326-1037, CAN113-B326-1047, CAN113-B327-1021, CAN113-B327-1024, CAN113-B327-1034 and CAN113-B327-1044. Chromium, zinc, nickel, manganese, iron and lead results were qualified as estimated (J/UJ) in the associated sample data due to unsatisfactory precision.

For sample CAN113-B329-1020 laboratory duplicate precision for aluminum (29%), barium (30%) and iron (32%) exceeded the RPD limits specified in section 4.1.1.1. The following samples were associated with this duplicate: CAN113-B330-1014, CAN113-B330-1020, CAN113-B330-1030, CAN113-B330-0568 and CAN113-B330-1040. Aluminum, barium and iron results were qualified as estimated (J/UJ) due to unsatisfactory precision

4.6.7.3 MS/MSD Spike Recoveries

For sample CAN113-B308-1055 MS recoveries for antimony (65%), selenium (68%) and thallium (24%) were outside acceptance limits specified in section 4.1.1.1. The following samples were associated with this spike: CAN113-B326-1055, CAN113-B327-1056 and CAN113-B330-1050. Antimony and selenium were qualified as estimated (J/UJ) due to low spike recoveries. Thallium results were reported as non-detect and were rejected (R) due to spike recoveries less than 30%.

For sample CAN113-B325-1030 MS recoveries for antimony (59%), magnesium (129%), nickel (76%), zinc (62%), selenium (61%), thallium (39%) and lead (1060%) were outside the acceptance limits specified in section 4.2.1.1. The following samples were associated with this spike: CAN113-B326-1021, CAN113-B326-0567, CAN113-B326-1027, CAN113-B326-1037, CAN113-B326-1047, CAN113-B327-1021, CAN113-B327-1024, CAN113-B327-1034 and CAN113-B327-1044. Magnesium and lead results were all reported as detected in the associated sample data and were qualified as estimated (J) due to high recoveries. Antimony, nickel, zinc, selenium and thallium results were qualified as estimated due to low spike recoveries

For sample CAN113-B329-1020 MS recoveries for antimony (52%), manganese (121%), silver (79%), selenium (61%) and thallium (31%) were outside of the acceptance limits specified in section 4.1.1.1. The following samples were associated with this spike: CAN113-B330-1014, CAN113-B330-1020, CAN113-B330-1030, CAN113-B330-0568 and CAN113-B330-1040. Manganese results were reported as detected in the associated sample data and wee qualified as estimated (J) due to a high recovery. Antimony, silver, selenium and thallium results were qualified as estimated (J/UJ) due to low recoveries

4.6.7.4 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS and SCS recoveries were satisfactory. Accuracy with regard to the matrix as measured by the spike recoveries were satisfactory with the exceptions noted above in section 4.6.7.3. Precision with regard to the matrix as measured by the laboratory duplicate RPDs were satisfactory with

the exceptions noted above in section 4.6.7.2. Field duplicate precision were within acceptance limits indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.6.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Samples were analyzed for TRPH by Method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits and no data qualification was required.

4.6.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are useable as reported by the laboratory.

4.6.9 Total Organic Carbon (TOC)

Samples CAN113-B326-1027 and CAN113-B330-1040 were analyzed for TOC by Method 9060. The QC review parameters outlined in Section 4.1.1.8 were within acceptance limits and no data qualification was required.

4.6.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.6.10 Sulfide

Samples CAN113-B326-1055, CAN113-B330-1050 and CAN113-B327-1056 were analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required.

4.6.10.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.6.11 Cyanide

Samples were analyzed for cyanide by Method 9010/9012. The QC review parameters outlined in Section 4.1.1.1 were within acceptance limits with the exception of holding times.

4.6.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.7 QC REVIEW - DATA PACKAGE 043697

4.7.1 Introduction

Samples were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable

petroleum hydrocarbons, total organic carbon, cyanide and sulfide. Samples CAN113-B320-1052, CAN113-B316-1080 and CAN113-B317-1053 were analyzed for the appendix IX list of compounds. Sample CAN113-B317-1035 was used for the matrix spike, and laboratory duplicate analysis. Sample CAN113-B316-1021 was canceled. The samples reported in this the data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B320-1016	043697-0001-SA
CAN113-B320-1020	043697-0002-SA
CAN113-B320-1030	043697-0003-SA
CAN113-B320-1040	043697-0004-SA
CAN113-B320-1052	043697-0005-SA
CAN113-B316-1000	043697-0006-SA
CAN113-B316-1021	043697-0007-SA Sample analysis canceled.
CAN113-B316-1045	043697-0008-SA
CAN113-B316-0566	043697-0009-SA (field dup. of sample CAN113-B316-1045)
CAN113-B316-1050	043697-0010-SA
CAN113-B316-1060	043697-0011-SA
CAN113-B316-1070	043697-0012-SA
CAN113-B316-1080	043697-0013-SA
CAN113-B317-1019	043697-0014-SA
CAN113-B317-1025	043697-0015-SA
CAN113-B317-1035	043697-0016-SA MS/MSD
CAN113-B317-1045	043697-0017-SA
CAN113-B317-1053	043697-0018-SA
CAN113-B318-1028	043697-0019-SA
CAN113-B318-1033	043697-0020-SA

4.7.2 Volatile Organics By Method 8240

Samples were analyzed for volatile organics by method 8240. Samples CAN113-B320-1052, CAN113-B316-1080 and CAN113-B317-1053 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.2 were within acceptance limits with the exception of blank contamination and field duplicate agreement.

4.7.2.1 Calibration

The continuing calibration reported for instrument W on 08/01/95 was associated with the analysis of the Appendix IX analytes for sample CAN113-B320-1052. The %D between the continuing calibration on 08/01/95 and the initial calibration on 05/15/95 for isobutanol was -116%, exceeding the criterion of ± 25%. The non-detect result reported for isobutanol in sample CAN113-B320-1052 was qualified as estimated (UJ). As the RF for isobutanol was greater than 0.05, it was the judgment of the data reviewer that the instrument sensitivity was sufficient to quantitate this analyte at the reporting limit and, therefore, no additional qualification or change in the reporting limit for isobutanol is necessary.

4.7.2.2 Blank Contamination

The method blank 01 AUG 95 W had acetone reported as detected at a concentration of 4.0 µg/kg. Samples CAN113-B320-1016, CAN113-B320-1020, CAN113-B320-1030, CAN113-B320-1040, CAN113-B320-1052, CAN113-B316-1000, and CAN113-B317-1035 were associated with this method blank. Acetone values less than ten times the amount in the method blank were qualified as non-detect (U) at the reported value in sample CAN113-B320-1040. Acetone values less than ten times the amount found in the method blank were qualified as non-detect (U) at the reporting limit in samples CAN113-B320-1016, CAN113-B320-1020, CAN113-B316-1000 and CAN113-B317-1035. Non-detected acetone results in samples CAN113-B320-1030 and CAN113-B320-1052 did not require qualification.

Methylene chloride was reported as detected at a concentration of 1.4 µg/kg in the method blank 02 AUG 95 D. The samples associated with this method blank were samples CAN113-B316-1060, CAN113-B316-1070, CAN113-B316-1080 and CAN113-B317-1019.

Methylene chloride reported as detected in samples CAN113-B316-1060, CAN113-B316-1070 and CAN113-B317-1019 at concentrations less than ten times the amount found in the method blank were qualified as non-detect (U) either at the reporting limit. Methylene chloride results reported as non-detect in sample CAN113-B316-1080 did not require qualification

Methylene chloride was reported as detected at a concentration of 1.3 µg/kg in the method blank 03 AUG 95 D. The sample associated with this method blank was CAN113-B317-1025. Methylene chloride was reported as detected at a concentration less than ten times the amount found in the method blank and was qualified as non-detect (U) at the reporting limit

The method blank 01 AUG 95 H had 2-Butanone and methylene chloride reported as detected at concentrations of 2.0 µg/kg and 1.3 µg/kg, respectively. Samples CAN113-B317-1035, CAN113-B317-1053, CAN113-B318-1028 and CAN113-B318-1033 were associated with this method blank. 2-Butanone results were reported as non-detect in the associated sample data and no data qualification was required. Detected methylene chloride results in samples CAN113-B317-1053 and CAN113-B318-1033 were qualified as non-detect (U) at the reporting limit. Non-detected methylene chloride result in sample CAN113-B317-1035 and CAN113-B318-1028 did not require qualification. No other data qualification was required.

4.7.2.3 Field Duplicates

For the field duplicate pair CAN113-B326-1021 and CAN113-B326-0567, all volatile target compounds were within acceptance limits with the exception of acetone. The samples associated with this field duplicate pair are: CAN113-B320-1016, CAN113-B320-1020, CAN113-B320-1030 and CAN113-B320-1040. The acetone results were 120 mg/kg for the sample and 3.4 mg/kg for its duplicate. This exceeds the 3X the reporting limit acceptance criteria and the associated sample data were qualified as estimated (J/UJ).

4.7.2.4 Tentatively Identified Compounds (TICs)

Siloxanes were reported as TICs in three of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B317-1053,

CAN113-B318-1028, and CAN113-B318-1033 were qualified as unusable (R). No other TICs were reported as detected in samples in this data package.

4.7.2.5 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.7.3 Semivolatile Organics By Method 8270

Eighteen samples and one field duplicate were analyzed for semivolatile organics by method 8270. Samples CAN113-B320-1052, CAN113-B316-1080 and CAN113-B317-1053 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.2.1.3 were within acceptance limits with the exception of the MS/MSD precision.

4.7.3.1 MS/MSD RPDs

All MS/MSD recoveries were within acceptance limits with the exception of the MS/MSD recoveries for sample CAN113-B308-1055 and the MS/MSD RPDs for sample CAN113-B317-1035.

For sample CAN113-B308-1055 MS/MSD recoveries for 2,4-Dinitrotoluene were 38% and 37%, respectively below the 39-139% acceptance limits. Since these recoveries were just below the acceptance limits, all surrogate recoveries and associated SCS and DCS recoveries were within acceptance limits, no data qualification was considered necessary. The samples associated with this MS/MSD are: CAN113-B320-1052 and CAN113-B316-1080.

For sample CAN113-B317-1035, the RPDs between MS/MSD spike recoveries for phenol (21%), 2-Chlorophenol (31%), 1,4-dichlorobenzene (58%) and 1,2,4-Trichlorobenzene (39%) exceeded the RPDs allowed as described in section 4.2.1.3. Since the MS and MSD recoveries, all surrogate recoveries in the associated samples, and associated SCS and DCS

recoveries and RPDs were within acceptance limits, no qualification of associated data was considered necessary.

4.7.3.2 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in five of the samples. The laboratory reported two TICs at retention times of 4.396 and 4.434 minutes for sample CAN113-B316-0566. The laboratory provided tentative identifications for both of these TICs as 2-methyl-propanoic acid. The spectra for both TICs were consistent with the reference spectra. An evaluation of the total ion chromatogram for this sample indicated the presence of a broad peak covering the retention time range reported for these two TICs. In the judgment of the data reviewer, it is considered likely that the integrator incorrectly integrated this broad peak as two peaks. As such, the instrument results reported for these two TICs have been combined by the data reviewer and an estimated value of 1400 ug/kg on a dry weight basis is reported for 2-methyl-propanoic acid and qualified "NJ", tentatively identified, with an approximated concentration. All other reported TIC identifications were considered acceptable and all results were qualified "NJ", tentatively identified, with approximated concentrations.

4.7.3.3 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. As described above, although 1 MS/MSD pair had recoveries slightly outside control limits, accuracy with regard to the matrix, as measured by the surrogate recoveries and the MS/MSD recoveries was satisfactory. Precision with regard to the sample matrix as measured by the MS/MSD RPDs was satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.7.4 Organochlorine Pesticide/PCBs By Method 8080

Eighteen samples and one field duplicate were analyzed for pesticide/PCBs by method 8080. Samples CAN113-B320-1052, CAN113-B316-1080 and CAN113-B317-1053 were analyzed

for the appendix IX list of compounds. The QC review parameters outlined in section 4.2.1.4 were within acceptance limits and no data qualification was required.

4.7.4.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.7.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B320-1052, CAN113-B316-1080 and CAN113-B317-1053 were analyzed for organophosphorus pesticides. The QC review parameters outlined in section 4.2.1.5 were within acceptance limits with the exception of surrogate recoveries.

4.7.5.1 Surrogate Recoveries

Both surrogate recoveries (39% and 41%) for sample CAN113-B316-1080 were below the acceptance limits outlined in section 4.2.1.5. Results for all analytes in sample CAN113-B316-1080 were qualified as estimated (UJ) due to low surrogate recoveries.

4.7.5.2 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries was satisfactory with the exception of the surrogate recoveries for sample CAN113-B316-1080. Precision with regard to the sample matrix was satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.7.6 Herbicides By Method 8150

Samples CAN113-B320-1016, CAN113-B320-1052, CAN113-B316-1045, CAN113-B316-0566, CAN113-B316-1080, CAN113-B317-1019, CAN113-B317-1053 and CAN113-B318-1028 were analyzed for herbicides. The QC review parameters outlined in section 4.2.1.6 were within acceptance limits and no data qualification was required.

4.7.6.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries, MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.7.7 Metals

Eighteen samples and one field duplicate were analyzed for metals by SW-846 methodology. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of Duplicate Control Sample recoveries, laboratory duplicate precision and MS/MSD spike recoveries and RPDs.

4.7.7.1 Blanks

The Continuing Calibration Blank #2 (CCB2) analyzed 8/11/95 associated with samples CAN113-B320-1016, CAN113-B320-1020, CAN113-B320-1030 and CAN113-B320-1040 had cadmium detected at an equivalent concentration of -0.39 mg/kg. The associated samples all had cadmium reported as non-detect. This potential bias can result in false negative results, therefore, these sample data were qualified as estimated (UJ).

The CCB2 analyzed 8/16/95 associated with samples CAN113-B316-1080, CAN113-B317-1019, CAN113-B317-1025, CAN113-B317-1045, CAN113-B317-1053 and CAN113-B318-1028 had cadmium detected at an equivalent concentration of 0.24 mg/kg. Cadmium was

reported as detected at concentrations less than or equal to 5X the amount found in the blank in samples CAN113-B316-1080, CAN113-B317-1019 and CAN113-B317-1045. These detected results were qualified as non-detect (U) due to blank contamination.

4.7.7.2 Duplicate Control Sample Recoveries

The DCS recoveries for tin exceeded the acceptance limits described in section 4.2.1.1. in the DCS associated with samples CAN113-B320-1052, CAN113-B316-1080 and CAN113-B317-1053. Recovery of tin in one of these two duplicate control samples was 158% and the other was 111% with an RPD of 35%. Tin was reported as detected in sample CAN113-B320-1052 and CAN113-B317-1053 and was qualified as estimated due to the potential high bias.

4.7.7.3 Laboratory Duplicates

For sample CAN113-B308-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary. The following samples are associated with this MS/MSD: CAN113-B320-1052 and CAN113-B316-1080.

For sample CAN113-B317-1035 laboratory duplicate precision for barium (21%) and manganese (25%) exceeded the relative percent difference (RPD) criteria of 20%, as described in section 4.1.1.1. Barium and manganese results were qualified as estimated (J/UJ) in the associated soil sample data due to unsatisfactory precision. The following samples are associated with this duplicate: CAN113-B320-1030, CAN113-B320-1040, CAN113-B317-1019, CAN113-B317-1025, CAN113-B317-1035, CAN113-B317-1045, CAN113-B317-1053, CAN113-B318-1028 and CAN113-B318-1033.

For sample CAN113-B322-1035 laboratory duplicate precision for barium (40%) and manganese (24%) exceeded the RPD limit specified in section 4.1.1.1. Manganese and barium results were qualified as estimated (J/UJ) in the associated sample data due to unsatisfactory precision. The following samples are associated with this duplicate: CAN113-

B316-1045, CAN113-B316-0566, CAN113-B316-1050, CAN113-B316-1060 and CAN113-B316-1070.

4.7.7.4 MS/MSD Spike Recoveries

For sample CAN113-B301-1000, MS recoveries for antimony (28%), barium (79%), manganese (144%) and selenium (47%) were outside the acceptance limits specified in section 4.1.1.1. Sample CAN113-B316-1000 is associated with this spike. Manganese was reported as detected in the associated sample result and thus qualified as estimated (J) due to a high recovery. Barium and selenium results were qualified as estimated (J/UJ) due to low recoveries. Antimony was reported as not detected in the associated samples and thus rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B308-1055, MS recoveries for antimony (65%), selenium (68%) and thallium (24%) were outside acceptance limits described in section 4.1.1.1. The following samples are associated with this spike: CAN113-B320-1052 and CAN113-B316-1080. Antimony and selenium results were qualified as estimated (J/UJ) due to low recoveries. Thallium results were reported as non-detect in the associated sample data and were rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B317-1035, MS recoveries for antimony (19%), barium (182%), manganese (75%) and selenium (52%) were outside of the acceptance limits described in section 4.1.1.1. The following samples are associated with this spike: CAN113-B320-1030, CAN113-B320-1040, CAN113-B317-1019, CAN113-B317-1025, CAN113-B317-1035, CAN113-B317-1045, CAN113-B317-1053, CAN113-B318-1028 and CAN113-B318-1033. Barium was reported as detected in all associated samples and results were qualified as estimated (J) due to a high recovery. Manganese and selenium results were qualified as estimated (J/UJ) in the associated soil sample data due to low recoveries. Antimony was reported as detected in samples CAN113-B317-1035, CAN113-B318-1028 and CAN113-B318-1033 and these results were qualified as estimated (J) while all other associated samples had antimony reported as not detected and results were rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B319-1045, MS recoveries for antimony (52%) and selenium (26%) were outside the acceptance limits described in section 4.1.1.1. Samples CAN113-B320-1016 and CAN113-B320-1020 are associated with this spike. Antimony was reported as not detected in associated samples and results were qualified as estimated (UJ) due to a low spike recovery. Selenium was reported as not detected in associated samples and these results were rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B322-1035 MS recoveries for antimony (134%), selenium (59%) and thallium (39%) were outside the acceptance limits specified in section 4.1.1.1. The following samples are associated with this spike: CAN113-B316-1045, CAN113-B316-0566, CAN113-B316-1050, CAN113-B316-1060 and CAN113-B316-1070. Antimony was reported as detected in sample CAN113-B316-1070 and this result was qualified as estimated (J) due to a high recovery. All other antimony results were reported as non-detect and no qualification was necessary. Selenium and thallium results were all reported as non-detect and were qualified as estimated (UJ) due to low recoveries.

4.7.7.5 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory with the exception of tin. Accuracy with regard to the matrix, as measured by the MS recoveries was acceptable with the exception noted in section 4.7.7.4 above. Precision with regard to the sample matrix as measured by the laboratory duplicate samples was satisfactory with the exceptions noted in section 4.7.7.3 above. Field duplicate results met acceptance criteria indicating satisfactory agreement. Seven antimony results and two selenium results were rejected by the reviewer and are not considered to be useable. All other metals data are considered useable as qualified by the reviewer.

4.7.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Eighteen samples and one field duplicate were analyzed for TRPH by method 418.1. The QC review parameters outlined in section 4.2.1.7 were within acceptance limits, and no data qualification was required.

4.7.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.7.9 Total Organic Carbon (TOC)

Samples CAN113-B320-1052 and CAN113-B316-1050 were analyzed for TOC. The QC review parameters outlined in section 4.2.1.8 were within acceptance limits, and no data qualification was required.

4.7.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.7.10 Sulfide

Samples CAN113-B320-1052, CAN113-B316-1080 and CAN113-B317-1053 were analyzed for sulfide. The QC review parameters outlined in section 4.2.1.9 were within acceptance limits, and no data qualification was required

4.7.10.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met

acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.7.11 Cyanide

Eighteen samples and one field duplicate were analyzed for cyanide. The QC review parameters outlined in section 4.2.1.1 were within acceptance limits, and no data qualification was required.

4.7.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.8 QC REVIEW - DATA PACKAGE 043720

4.8.1 Introduction

Twenty four samples were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum hydrocarbons, total organic carbon, cyanide and sulfide. Samples CAN113-B312-1065, CAN113-B314-1067, CAN113-B324-1059, CAN113-B318-1063 and CAN113-B319-1053 were analyzed for the appendix IX list of compounds. Sample CAN113-B319-1045 was used for MS and laboratory duplicate for the metals analyses only. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B312-1027	043720-0001-SA
CAN113-B312-1034	043720-0002-SA
CAN113-B312-1045	043720-0003-SA
CAN113-B312-1055	043720-0004-SA
CAN113-B312-1065	043720-0005-SA
CAN113-B314-1032	043720-0006-SA
CAN113-B314-1038	043720-0007-SA
CAN113-B314-1045	043720-0008-SA
CAN113-B314-1057	043720-0009-SA
CAN113-B314-1067	043720-0010-SA
CAN113-B324-1024	043720-0011-SA
CAN113-B324-1029	043720-0012-SA
CAN113-B324-1040	043720-0013-SA
CAN113-B324-1050	043720-0014-SA
CAN113-B324-1059	043720-0015-SA
CAN113-B318-1045	043720-0016-SA
CAN113-B318-1055	043720-0017-SA
CAN113-B318-1063	043720-0018-SA
CAN113-B319-1000	043720-0019-SA
CAN113-B319-1018	043720-0020-SA
CAN113-B319-1025	043720-0021-SA
CAN113-B319-1035	043720-0022-SA
CAN113-B319-1045	043720-0023-SA MS, laboratory duplicate
CAN113-B319-1053	043720-0024-SA

4.8.2 Volatile Organics By Method 8240

Twenty four samples were analyzed for volatile organics by method 8240. Samples CAN113-B312-1065, CAN113-B314-1067, CAN113-B324-1059, CAN113-B318-1063 and CAN113-B319-1053 were analyzed for the appendix IX list of compounds. The QC review parameters

outlined in section 4.1.1.2 were within acceptance limits with the exception of blank contamination.

4.8.2.1 Calibration

The continuing calibration reported for instrument D on 08/03/95 was associated with the analysis of the Appendix IX analytes for sample CAN113-B319-1053. The instrument sensitivity for 1,4-dioxane decreased from the initial to the continuing calibration and the %D between the initial and continuing calibration was 26%, exceeding the criterion of 25%. It is the judgment of the data reviewer that the reporting limit for 1,4-dioxane does not sufficiently reflect the decrease in sensitivity of the analytical method and, therefore, the reporting limit for 1,4-dioxane for sample CAN113-B319-1053 has been raised proportionately to the decrease in sensitivity to 710 ug/Kg and qualified as estimated (UJ).

4.8.2.2 Blank Contamination

The method blank 01 AUG 95 H had 2-Butanone and methylene chloride reported as detected at concentrations of 2.0 µg/kg and 1.3 µg/kg, respectively. Samples CAN113-B312-1027, CAN113-B312-1034, CAN113-B312-1045, CAN113-B312-1055, CAN113-B312-1065 were associated with this method blank. Neither methylene chloride nor 2-Butanone were reported as detected in the associated sample data and no data qualification was required.

Acetonitrile was incorrectly flagged with a BJ by the laboratory in sample CAN113-B312-1065; the B flag was removed by the reviewer.

Methylene chloride was reported as detected at a concentration of 2.3 µg/kg in the method blank 02 AUG 95 H. The samples associated with this method blank were samples CAN113-B314-1032, CAN113-B314-1038, CAN113-B314-1045, CAN113-B314-1057, CAN113-B314-1067, CAN113-B324-1024, CAN113-B324-1029, CAN113-B324-1040, CAN113-B324-1050, CAN113-B324-1059, CAN113-B318-1045, CAN113-B318-1055, CAN113-B318-1063 and CAN113-B319-1000. Methylene chloride results were reported as detected in all the associated sample data at concentrations less than ten times the amount found in the

method blank and less than the reporting limit. All sample results were qualified as non-detect (U) at the reporting limit.

Methylene chloride was reported as detected at a concentration of 3.9 µg/kg in the method blank 03 AUG 95 H. The methylene chloride result in the associated sample CAN113-B319-1018 was reported as non-detect and did not require qualification.

Methylene chloride was reported as detected at a concentration of 1.4 µg/kg in the method blank 02 AUG 95 D. The samples associated with this method blank were samples CAN113-B319-1025 and CAN113-B319-1045. Methylene chloride results were reported as detected at concentrations less than ten times the amount found in the method blank and less than the reporting limit. Methylene chloride results were qualified as non-detect (U) at the reporting limit.

Methylene chloride was reported as detected at a concentration of 1.3 µg/kg in the method blank 03 AUG 95 D. The samples associated with this method blank were samples CAN113-B319-1035 and CAN113-B319-1053. Methylene chloride results were reported as detected at concentrations less than ten times the amount found in the method blank and less than the reporting limit. Methylene chloride results were qualified as non-detect (U) at the reporting limit in the associated sample data.

4.8.2.3 Field Duplicates

For the field duplicate pair CAN113-B326-1021 and CAN113-B326-0567, all volatile target compounds were within acceptance limits with the exception of acetone. The samples associated with this field duplicate pair are: CAN113-B312-1027 and CAN113-B312-1034. The acetone results were 120 mg/kg for the sample and 3.4 mg/kg for its duplicate. This exceeds the 3X the reporting limit acceptance criteria allowed and the associated sample data were qualified as estimated (J/UJ).

4.8.2.4 Tentatively Identified Compounds (TICs)

Volatile TICs were reported in 15 of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in the following 12 samples were qualified as unusable (R):

CAN113-B312-1034	CAN113-B314-1045	CAN113-B318-1045
CAN113-B312-1045	CAN113-B314-1067	CAN113-B318-1055
CAN113-B312-1055	CAN113-B324-1024	CAN113-B318-1063
CAN113-B314-1032	CAN113-B324-1059	CAN113-B319-1018

No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.8.2.5 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries and the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the sample matrix as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results were within acceptance criteria indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.8.3 Semivolatile Organics By Method 8270

Twenty four samples were analyzed for semivolatile organics by method 8270. Samples CAN113-B312-1065, CAN113-B314-1067, CAN113-B324-1059, CAN113-B318-1063 and CAN113-B319-1053 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.3 were within acceptance limits and no data qualification was required

4.8.3.1 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in four of the samples.

The identification of dodecanamide (RT = 17.592 min) in sample CAN113-B314-1057 is considered unacceptable. The major ions in the sample spectrum at m/z 81, 112, and 126 are absent from the reference spectrum. The fragmentation pattern and relative intensities for several major ions (i.e., greater than 10% relative intensity) at m/z 41 to m/z 75 in the sample spectra are significantly different than those present in the reference spectrum. The base peak at m/z 59, along with a strong peak at m/z 44 is consistent with a primary amide. There was no indication of coelution at the retention time for this TIC in the total ion chromatogram for this sample. As such, the identification of dodecanamide in sample CAN113-B314-1057 has been changed to "primary amide".

The identification of octyl thioglycolate in sample CAN113-B324-1029 (RT = 18.868 min) was considered to be unacceptable by the data reviewer. The relative intensities for several major ions (i.e., greater than 10% relative intensity) at m/z 41, 43, and 55 in the reference spectrum are significantly different than those present in the sample spectrum. Additionally, the major ion at m/z 47 in the reference spectrum, characteristic of mercaptans, is absent from the sample spectrum. As such, the tentative identification of octyl thiogylcolate in sample CAN113-B324-1029 was changed to "unknown".

No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.8.3.2 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the sample matrix as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results were within acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.8.4 Organochlorine Pesticide/PCBs By Method 8080

Twenty four samples were analyzed for pesticide/PCBs by method 8080. Samples CAN113-B312-1065, CAN113-B314-1067, CAN113-B324-1059, CAN113-B318-1063 and CAN113-B319-1053 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.4 were within acceptance limits and no data qualification was required.

4.8.4.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries and the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the sample matrix as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results were within acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.8.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B312-1065, CAN113-B314-1067, CAN113-B324-1059, CAN113-B318-1063 and CAN113-B319-1053 were analyzed for organophosphorus pesticides. The QC review parameters outlined in section 4.1.1.5 were within acceptance limits and no data qualification was required

4.8.5.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries and the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the sample matrix as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results were within acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.8.6 Herbicides By Method 8150

Samples CAN113-B312-1027, CAN113-B312-1034, CAN113-B312-1065, CAN113-B314-1032, CAN113-B314-1067, CAN113-B324-1024, CAN113-B324-1059, CAN113-B318-1063, CAN113-B319-1018, and CAN113-B319-1053 were analyzed for herbicides. The QC review parameters outlined in section 4.1.1.6 were within acceptance limits and no data qualification was required.

4.8.6.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries and the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the sample matrix as measured by the surrogate recoveries was satisfactory. Field duplicate results were within acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.8.7 Metals

Twenty four samples were analyzed for metals by SW-846 methodology. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of blanks, Duplicate Control Sample recoveries, laboratory duplicate precision and MS recoveries.

4.8.7.1 Blanks

In the Continuing Calibration Blank #3 (CCB3) analyzed 8/16/95 cadmium and chromium were detected at the equivalent concentrations of 0.33 mg/kg and -0.53 mg/kg, respectively. The samples associated with this blank are: CAN113-B312-1027, CAN113-B312-1034 and CAN113-B312-1045. The samples associated with this blank were either non-detect, or had concentrations greater than five times the amount or greater than three times the negative amount found in the blank for cadmium and chromium, respectively, and no data qualification was required.

The CCB1 analyzed 8/17/95 had beryllium and cadmium detected at the equivalent concentrations of 0.1 mg/kg and 0.26 mg/kg, respectively. The samples associated with this blank are: CAN113-B314-1032, CAN113-B314-1038, CAN113-B314-1045, CAN113-B314-1057, CAN113-B314-1067, CAN113-B324-1024, CAN113-B324-1029, CAN113-B324-1040, CAN113-B324-1050, CAN113-B324-1059, CAN113-B318-1045, CAN113-B318-1055, CAN113-B318-1063, CAN113-B319-1000, CAN113-B319-1018, CAN113-B319-1025, CAN113-B319-1035 and CAN113-B319-1045. Samples CAN113-B314-1067, CAN113-B324-1040 and CAN113-B318-1045, had beryllium results reported as detected at concentrations less than 5X the amount found in the blank and less than the reporting limit and were qualified as non-detect (U) at the reporting limit due to blank contamination. Samples CAN113-B319-1000 and CAN113-B319-1018 had beryllium results reported as detected at concentrations less than 5X the amount found in the blank but greater than the reporting limit and were qualified as non-detect at the reported value (U) due to blank contamination. Cadmium results were non-detect and did not require qualification with the exception of sample CAN113-B319-1018. The cadmium result for sample CAN113-B319-1018 was less than 5X the blank concentration and greater than the reporting limit and was qualified as non-detect (U) at the reported value.

The CCB2 analyzed 8/17/95 had beryllium detected at the equivalent concentrations of 0.1 mg/kg. The samples associated with this blank are: CAN113-B314-1032, CAN113-B314-1038, CAN113-B314-1045, CAN113-B314-1057, CAN113-B314-1067, CAN113-B324-1024, CAN113-B324-1029, CAN113-B324-1040, CAN113-B324-1050, CAN113-B324-1059, CAN113-B318-1045, CAN113-B318-1055, CAN113-B318-1063, CAN113-B319-1000, CAN113-B319-1018, CAN113-B319-1025, CAN113-B319-1035, CAN113-B319-1045 and CAN113-B319-1053. Samples CAN113-B319-1000 and CAN113-B319-1018 were previously qualified for beryllium contamination in CCB1 and no additional qualification was required. The remaining samples were all non-detect for beryllium and no data qualification was required.

The CCB3 analyzed 8/17/95 had beryllium detected at the equivalent concentration of 0.1 mg/kg. The samples associated with this blank are: CAN113-B318-1055, CAN113-B318-1063, CAN113-B319-1000, CAN113-B319-1018, CAN113-B319-1025, CAN113-B319-1035, CAN113-B319-1045 and CAN113-B319-1053. Samples CAN113-B319-1000 and

CAN113-B319-1018 were previously qualified for beryllium contamination and no additional qualification was required. The beryllium results for the remaining sample data were non-detect and did not require qualification.

4.8.7.2 Duplicate Control Sample Recoveries

The DCS average recovery and RPDs for tin were 135% and 35% respectively, exceeding the acceptance limits described in section 4.1.1.1. in the DCS associated with samples CAN113-B312-1065, CAN113-B314-1067, CAN113-B324-1059, CAN113-B318-1063 and CAN113-B319-1053. Tin results were all reported as non-detects and no data qualification was considered necessary.

4.8.7.3 Laboratory Duplicates

For sample CAN113-B308-1055, no laboratory duplicate was analyzed. Rather, the laboratory analyzed a MS/MSD and calculated RPDs between the MS/MSD results. All MS/MSD results were within the acceptance limits specified in section 4.1.1.1 and no data qualification was necessary. The following samples are associated with this MS/MSD: CAN113-B312-1065, CAN113-B318-1063 and CAN113-B319-1053.

For sample CAN113-B317-1035 laboratory duplicate precision for barium (21%) and manganese (31%) exceeded the relative percent difference (RPD) criteria of 20%, as described in section 4.1.1.1. Barium and manganese results were qualified as estimated (J/UJ) in the associated soil sample data due to unsatisfactory precision. The following samples are associated with this duplicate: CAN113-B312-1027, CAN113-B312-1034, CAN113-B312-1045, CAN113-B312-1055, CAN113-B314-1032, CAN113-B314-1038, CAN113-B314-1045, CAN113-B314-1057, CAN113-B314-1067, CAN113-B318-1045 and CAN113-B318-1055.

For sample CAN113-B325-1030 laboratory duplicate precision for chromium (45%), zinc (59%), nickel (32%), manganese (21%), iron (26%) and lead (165%) exceeded the RPD limits specified in section 4.1.1.1. Chromium, zinc, nickel, manganese, iron and lead results were qualified as estimated (J/UJ) in the associated sample data due to unsatisfactory

precision. The following samples were associated with this duplicate: CAN113-B324-1024, CAN113-B324-1029, CAN113-B324-1040, CAN113-B324-1050 and CAN113-B324-1059.

4.8.7.4 MS/MSD Spike Recoveries

For sample CAN113-B301-1000 MS recoveries for antimony (28%), barium (79%), manganese (144%) and selenium (47%) were outside the acceptance limits specified in section 4.1.1.1. Sample CAN113-B319-1000 is associated with this spike. Manganese was reported as detected and results were qualified as estimated due to a high recovery. Barium and selenium results were qualified as estimated (J/UJ) due to low recoveries. Antimony was reported as a non-detect and was rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B308-1055 MS recoveries for antimony (65%), selenium (68%) and thallium (24%) were outside acceptance limits described in section 4.1.1.1. The following samples are associated with this spike: CAN113-B312-1065, CAN113-B318-1063 and CAN113-B319-1053. Antimony and selenium results were qualified as estimated (J/UJ) due to low recoveries. Thallium results were reported as detected in samples CAN113-B318-1063 and CAN113-B319-1053 and were qualified as estimated while thallium was reported as non-detect in sample CAN113-B312-1065 and was rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B317-1035 MS recoveries for antimony (19%), barium (182%), manganese (75%) and selenium (52%) were outside of the acceptance limits described in section 4.1.1.1. The following samples are associated with this spike: CAN113-B312-1027, CAN113-B312-1034, CAN113-B312-1045, CAN113-B312-1055, CAN113-B314-1032, CAN113-B314-1038, CAN113-B314-1045, CAN113-B314-1057, CAN113-B314-1067, CAN113-B318-1045 and CAN113-B318-1055. All barium results were reported as detected in the associated samples and were qualified as estimated (J) due to a high recovery. Manganese and selenium results were qualified as estimated (J/UJ) in the associated soil sample data due to low recoveries. Antimony was reported as detected in sample CAN113-B312-1045 and was qualified as estimated (J) due to a spike recovery less than 30%. All other associated antimony results were reported as non-detects and were rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B319-1045 MS recoveries for antimony (52%) and selenium (26%) were outside of the acceptance limits described in section 4.1.1.1. Samples CAN113-B319-1018, CAN113-B319-1025, CAN113-B319-1035 and CAN113-B319-1045 are associated with this spike. Associated antimony results were all reported as non-detect and were qualified as estimated (UJ) due to a low spike recovery. Selenium results were reported as non-detect in all the associated sample data and were rejected (R) due to a spike recovery below 30%.

For sample CAN113-B325-1030 MS recoveries for antimony (59%), magnesium (129%), nickel (76%), zinc (62%), selenium (61%), thallium (39%) and lead (1060%) were outside the acceptance limits specified in section 4.1.1.1. The following samples were associated with this spike: CAN113-B324-1024, CAN113-B324-1029, CAN113-B324-1040, CAN113-B324-1050 and CAN113-B324-1059. Magnesium and lead results were all reported as detected in the associated samples and were qualified as estimated (J) due to high recoveries. Antimony, nickel, zinc, selenium and thallium results were qualified as estimated due to low spike recoveries.

4.8.7.5 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory with the exception of tin. Accuracy with regard to the sample matrix as measured by the MS recoveries with the exceptions noted in section 4.7.7.4. Precision with regard to the sample matrix was satisfactory with the exceptions noted in section 4.7.7.3. Field duplicate results were within acceptance limits indicating satisfactory agreement. Four selenium results and eleven antimony results were rejected by the reviewer and are not considered to be useable. The remaining sample data are considered useable as qualified by the reviewer.

4.8.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Twenty four samples were analyzed for TRPH by method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits, and no data qualification was required.

4.8.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.8.9 Total Organic Carbon (TOC)

Samples CAN113-B312-1034, CAN113-B314-1038, CAN113-B318-1045, and CAN113-B319-1053 were analyzed for TOC. The QC review parameters outlined in section 4.1.1.8 were within acceptance limits, and no data qualification was required.

4.8.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.8.10 Sulfide

Samples CAN113-B312-1065, CAN113-B314-1067, CAN113-B324-1059, CAN113-B318-1063 and CAN113-B319-1053 were analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required.

4.8.10.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.8.11 Cyanide

Twenty four samples were analyzed for cyanide. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits, and no data qualification was required.

4.8.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.9 QUALITY CONTROL REVIEW - SDG 043735

4.9.1 Introduction

Samples were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum hydrocarbons, total organic carbon, cyanide, and sulfide. Samples CAN113-B315-1055, CAN113-B309-1053, and CAN113-B321-1057 were analyzed for the Appendix IX list of compounds. There were no anomalies associated with sample receipt. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B315-1020	043735-0001-SA
CAN113-B315-1025	043735-0002-SA
CAN113-B315-1035	043735-0003-SA
CAN113-B315-1045	043735-0004-SA
CAN113-B315-1055	043735-0005-SA
CAN113-B309-1018	043735-0006-SA
CAN113-B309-1025	043735-0007-SA
CAN113-B309-1035	043735-0008-SA
CAN113-B309-0564	043735-0009-SA (field duplicate of sample CAN113-B309-1035)
CAN113-B309-1045	043735-0010-SA
CAN113-B309-1053	043735-0011-SA
CAN113-B321-1022	043735-0012-SA
CAN113-B321-1027	043735-0013-SA
CAN113-B321-1035	043735-0014-SA
CAN113-B321-1045	043735-0015-SA
CAN113-B321-1057	043735-0016-SA

4.9.2 Volatiles By Method 8240

Samples were analyzed for volatile organics by Method 8240. The QC review parameters outlined in Section 4.1.1.2 were within acceptance limits with the exception of blank contamination and surrogate recoveries.

4.9.2.1 Calibration

The continuing calibration reported for instrument D on 08/03/95 was associated with the analysis of the Appendix IX analytes for sample CAN113-B309-1053. The instrument sensitivity for 1,4-dioxane decreased from the initial to the continuing calibration and the %D between the initial and continuing calibration was 26%, exceeding the criterion of 25%. It is the judgment of the data reviewer that the reporting limit for 1,4-dioxane does not sufficiently

reflect the decrease in sensitivity of the analytical method and, therefore, the reporting limit for, 1,4-dioxane for sample CAN113-B309-1053 has been raised proportionately to the decrease in sensitivity to 710 ug/Kg and qualified as estimated (UJ).

The %D's between the initial calibration on 03/06/95 and the continuing calibration (CCAL) on 08/07/95 for instrument N for the Appendix IX analytes ranged from -16,971 (1,2-dibromo-3-chloropropane) to + 33% (allyl chloride), as shown below:

Appendix IX Analyte	% Difference
Acetonitrile	-197
Allyl Chloride	+33
1,2-Dibromo-3-chloropropane (DBCP)	-16,971
1,4-Dioxane	-97
Isobutanol	-602
Methacrylonitrile	-238
Methyl methacrylate	-173
Propionitrile	-409

The RFs for these analytes in the initial calibration were significantly lower than those in the CCAL and significantly lower than the RFs for these analytes from the other instruments used for analysis. It is the judgment of the data reviewer that the low RFs in the initial calibration were due to an instrument problem and that the RFs from the CCAL are more representative of the sensitivity of the analytical method to these analytes.

The RF for 1,4-dioxane was less than 0.05 in both the initial and continuing calibrations and the %D exceeded the 25% criterion. It is the judgment of the reviewer that the reporting limit for 1,4-dioxane does not sufficiently reflect the change in instrument sensitivity and therefore, the reporting limit for 1,4-dioxane for sample CAN113-B321-1057 has been raised to reflect the change in sensitivity to 1040 ug/Kg and qualified as estimated (UJ).

The extremely low instrument sensitivity exhibited in the initial calibration for DBCP has resulted in an undetermined bias in the reported results and, therefore, the DBCP result in the associated sample CAN113-B321-1057 was qualified as unusable (R).

As the RFs for the remaining Appendix IX analytes listed above were greater than 0.05, it was the judgment of the data reviewer that the instrument sensitivity was sufficient to quantitate these analytes at the reporting limits and, therefore, no changes in the reporting limits for these analytes are necessary. The non-detect results reported for these analytes in sample CAN113-B321-1057 were qualified as estimated (UJ) due to the %D exceedances.

4.9.2.2 Blank Contamination

Method blank 03 AUG 95-H had methylene chloride reported at 3.9 µg/kg. The following samples were associated with this method blank: CAN113-B315-1020, CAN113-B315-1025, CAN113-B315-1045, CAN113-B315-1055, CAN113-B309-1018, CAN113-B309-1025, CAN113-B309-1035 and CAN113-B309-0564. Samples associated with this method blank were reported as non-detect for methylene chloride, except for sample CAN113-B309-0564 which had a reported concentration of methylene chloride at 2.5 ug/kg. Methylene chloride reported as non-detect in associated samples and did not require qualification. The methylene chloride value that was less than ten times the amount in the method blank and below the reporting limit for sample CAN113-B309-0564 was qualified as non-detect (U) at the reporting limit.

Method blank 03 AUG 95-D had methylene chloride reported at 1.3 µg/kg. The following samples were associated with this method blank: CAN113-B309-1045, CAN113-B309-1053, CAN113-B321-1022, CAN113-B321-1027, CAN113-B321-1035 and CAN113-B321-1045. The methylene chloride values in samples CAN113-B321-1027 and CAN113-B321-1035 were reported as detected at a concentration less than ten times the amount in the method blank and below the reporting limit. Methylene chloride for samples CAN113-B321-1027 and CAN113-B321-1035 were qualified as non-detect (U) at the reporting limit.

4.9.2.3 Surrogate Recoveries

The 1,2-dichloroethane-d4 surrogate spike recoveries for samples CAN113-B315-1-25, CAN1213-B315-1045 and CAN113-B315-1055 slightly exceeded the upper control limits

indicating a potential high bias. However, the target compounds for these samples were all reported as non-detect and no data qualification was necessary.

4.9.2.4 Tentatively Identified Compounds (TICs)

Siloxanes were reported as TICs in six of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B315-1020, CAN113-B315-1025, CAN113-B315-1045, CAN113-B315-1055, CAN113-B309-1025, and CAN113-B309-1035 were qualified as unusable (R). No other TICs were reported as detected in samples in this data package.

4.9.2.5 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix as measured by the surrogate recoveries were above acceptance limits, but were not considered to affect the quality of the sample data.. Accuracy and precision with regard to the matrix as measured by the MS/MSD recoveries and RPDs were satisfactory. The field duplicate results were within acceptance limits indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.9.3 Semivolatile Organics By Method 8270

Samples were analyzed for semivolatile organics by Method 8270. The QC review parameters outlined in Section 4.1.1.3 were within acceptance limits and no data qualification was required.

4.9.3.1 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in eight of the samples with chloroiodomethane being reported as a TIC at a low concentration in seven of the eight samples as shown in the table below:

Sample ID	TIC RT (min)
CAN113-B315-1025	3.660
CAN113-B315-1035	3.660
CAN113-B309-1025	3.673
CAN113-B309-1035	3.673
CAN113-B321-1022	3.673
CAN113-B321-1035	3.660
CAN113-B321-1045	3.673

The total ion chromatograms for the above samples show two small, broad peaks in the vicinity of the retention time for the TIC identified as chloroiodomethane. Peaks at similar retention times are also present in the total ion chromatograms for the associated method blanks and in the other samples analyzed as part of this data package with peak areas just below the laboratory reporting criterion. If chloroiodomethane (boiling point 109°C) was present in these samples, it would be expected that chloroiodomethane would also be reported as a TIC in the volatile organics analyses of these samples which have significantly lower detection limits than the semivolatile analyses. These TICs (identified by the laboratory as chloroiodomethane) appear to be present in the associated blank and were not identified in the volatile organics analyses for these samples or as a TIC in the semivolatile analysis of the field duplicate of sample CAN113-B309-1035 (CAN113-B309-0564) which was in a different data package. It is the judgment of the data reviewer, therefore, that these TICs are laboratory contaminants in the semivolatile organics analyses and, therefore, have been qualified as unusable (R).

The identification of 2-chloro-N,N'-di-2-propenyl-acetamide in sample CAN113-B309-1045 (RT = 3.673 min) was considered to be unacceptable by the data reviewer. The base peak in the sample spectrum (m/z = 55) differs from that in the reference spectrum (m/z = 41) and the relative intensities for several major ions (i.e., greater than 10% relative intensity) in the reference spectrum are significantly different than those present in the sample spectrum, specifically m/z 41, 56, 77, 82, 132, 137, and 173. The major ion peak at m/z 176 in the sample spectrum is absent from the reference spectrum. The total ion chromatogram shows two small, broad peaks in the vicinity of the retention time for this TIC indicating the potential for coelution. It is the judgment of the data reviewer that the sample spectrum is consistent

with a coelution between chloroiodomethane (molecular weight 176) and an unknown hydrocarbon. The strong peak at m/z 176 and the weaker peak at 178 would be consistent with chloroiodomethane with the m/z 176 being the molecular ion peak and m/z 178 being the m+2 peak due to chlorine. As these two peaks are present in the total ion chromatogram for the associated method blank and chloroiodomethane was not reported as a TIC in the volatile organic analysis for this sample, the reported TIC has been qualified as unusable (R).

A TIC identified as a "cyclic hydrocarbon" (RT = 3.572 min) was reported for sample CAN113-B309-1025. A peak at a similar retention time was present in the associated method blank with a peak area below the laboratory reporting criterion. Based on the retention time, the boiling point of this compound would be expected to be low enough to be detected in the volatile organics analysis. No such TIC was identified in the volatile organics analysis of this sample. As this TIC appears to be present in the associated blank and as this TIC was not identified in the volatile organics analysis of this sample, it is the judgment of the data reviewer that this TIC is a laboratory contaminant and, therefore, has been qualified as unusable (R).

No other reported TIC identifications were considered unacceptable. All reported TIC results were qualified "NJ", tentatively identified, with approximated concentrations.

4.9.3.2 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.9.4 Organochlorine Pesticide/PCBs By Method 8080

Samples were analyzed for organochlorine pesticide/PCBs by Method 8080. The QC review parameters outlined in Section 4.1.1.4 were within acceptance limits with the exception of the duplicate control sample recoveries.

4.9.4.1 Duplicate Control Samples

Duplicate Control Sample (DCS) (QC lot 10 AUG 95-N3) had reported RPDs for gamma-BHC (21%), heptachlor (24%), dieldrin (12%), endrin (17%), 4,4'-DDT (14%) and aldrin (24%) were outside of acceptance limits outlined in section 4.1.1.4. Since all the other associated QA/QC results were within acceptance limits, and the results for the field samples were reported as non-detect; the quality of the data are not considered to be affected and data qualification was not issued.

4.9.4.2 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries, surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. The DCS RPDs were outside of acceptance limits for some compounds, but were not considered to result in unsatisfactory sample data. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.9.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B315-1055, CAN113-B309-1053 and CAN113-B321-1057 were analyzed for organophosphorus pesticides by Method 8140. The QC review parameters outlined in Section 4.1.1.5 were within acceptance limits and no data qualification was required.

4.9.5.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.9.6 Herbicides By Method 8150

Samples CAN113-B315-1020, CAN113-B315-1055, CAN113-B309-1018, CAN113-B309-1053, CAN113-B321-1022, and CAN113-B321-1057 were analyzed for herbicides by Method 8150. The QC review parameters outlined in Section 4.1.1.6 were within acceptance limits and no data qualification was required.

4.9.6.1 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.9.7 Metals

Samples were analyzed for metals by SW-846 6000/7000 series. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of blank contamination, laboratory duplicate precision and matrix spike recoveries.

4.9.7.1 Blank Contamination

The end calibration blank analyzed 8/17/95 associated with samples CAN113-B321-1035, CAN113-B321-1045, and CAN113-B321-1057 had nickel reported at an equivalent concentration of 0.91 mg/kg. The nickel concentrations reported for these three samples were less than 5X the amount found in the calibration blank and below the reporting limit, and therefore, were qualified as non-detect (U) at the reporting limit.

Preparation blanks 14 AUG 95-5B and 14 AUG 95-ST had calcium reported at 19.0 mg/kg and 31.7 mg/kg, respectively. All associated calcium results were reported at levels greater than 10 times the concentration of the associated method blank and no data qualification was required.

4.9.7.2 Laboratory Duplicates

For sample CAN113-B303-1023 laboratory duplicate precision for calcium (50%) and magnesium (27%) exceeded the RPD limit specified in section 4.1.1.1. The following samples are associated with this duplicate: CAN113-B309-1018, CAN113-B309-1025, CAN113-B309-1035, CAN113-B309-0564, CAN113-B309-1045, CAN113-B309-1053, CAN113-B315-1020, CAN113-B315-1025, CAN113-B315-1035, CAN113-B315-1045, CAN113-B315-1055, CAN113-B321-1027, CAN113-B321-1035, CAN113-B321-1045 and CAN113-B321-1057. Calcium and magnesium results were qualified as estimated (J/UJ) in the associated sample data due to unsatisfactory precision.

For sample CAN113-B313-1032 laboratory duplicate precision for aluminum (83%), barium (56%), chromium > 2XRL, iron (77%), magnesium (29%), manganese (22%) and zinc >2XRL exceeded the RPD limits specified in section 4.1.1.1. The following sample is associated with this duplicate: CAN113-B321-1022. These results were qualified as estimated (J/UJ) in the associated sample data due to unsatisfactory precision.

4.9.7.3 MS/MSD Spike Recoveries

For sample CAN113-B303-1023 MS recoveries for nickel (71%), silver (71%), selenium (38%) and thallium (37%) were outside the acceptance limits specified in section 4.1.1.1. The following samples were associated with this: CAN113-B309-1018, CAN113-B309-1025, CAN113-B309-1035, CAN113-B309-0564, CAN113-B309-1045, CAN113-B309-1053, CAN113-B315-1020, CAN113-B315-1025, CAN113-B315-1035, CAN113-B315-1045, CAN113-B315-1055, CAN113-B321-1027, CAN113-B321-1035, CAN113-B321-1045 and CAN113-B321-1057. These metal results were qualified as estimated (J/UJ) in the associated samples due to low recoveries.

For sample CAN113-B313-1032 MS recoveries for antimony (33%), calcium (122%) and selenium (49%) were outside acceptance limits specified in section 4.1.1.1. Sample CAN113-B321-1022 was associated with this spike. Calcium was reported as detected and was qualified as estimated (J) due to a high spike recovery. Antimony and selenium results were both reported as non-detect and were qualified as estimated (UJ) due to low spike recoveries.

4.9.7.4 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS and SCS recoveries were satisfactory. Accuracy with regard to the matrix as measured by the MS recoveries were satisfactory with the exceptions noted in section 4.9.7.3. above. Precision with regard to the matrix as measured by the laboratory duplicates were satisfactory with the exceptions noted in section 4.9.7.2. above. Field duplicate results were within acceptance limits indicating satisfactory agreement. The sample data are considered useable as qualified by the reviewer.

4.9.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Samples were analyzed for TRPH by Method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits and no data qualification was required.

4.9.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.9.9 Total Organic Carbon (TOC)

Samples CAN113-B315-1025, CAN113-B309-1045, and CAN113-B321-1027 were analyzed for TOC BY Method 9060. The QC review parameters outlined in Section 4.1.1.8 were within acceptance limits and no data qualification was required.

4.9.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.9.10 Sulfide

Samples CAN113-B315-1055, CAN113-B309-1053, and CAN113-B321-1057 were analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required

4.9.10.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate results were within acceptance limits indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.9.11 Cyanide

Samples were analyzed for cyanide by Method 9010/9012. The QC review parameters outlined in Section 4.1.1.1 were within acceptance limits with the exception of holding times for one sample.

4.9.11.1 Holding Time

The cyanide holding time was exceeded by three days for sample CAN113-B309-1018. Cyanide was reported as a non-detect and qualified as estimated (UJ) due to holding time criterion exceedance.

4.9.11.2 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and laboratory duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as qualified by the reviewer.

4.10 QC REVIEW - DATA PACKAGE 043763

4.10.1 Introduction

Sixteen samples and one field duplicate were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum hydrocarbons, total organic carbon, cyanide and sulfide. Samples CAN113-B320-1052, and CAN113-B317-1053 were analyzed for the appendix IX list of compounds. Samples CAN113-B303-1023 and CAN113-B317-1032 were used for MS and laboratory duplicate analyses. The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B303-1023	043763-0001-SA MS/MSD
CAN113-B303-1028	043763-0002-SA
CAN113-B303-1040	043763-0003-SA
CAN113-B303-1050	043763-0004-SA
CAN113-B303-1058	043763-0005-SA
CAN113-B313-1000	043763-0006-SA
CAN113-B313-1027	043763-0007-SA
CAN113-B313-1032	043763-0008-SA MS/MSD
CAN113-B313-1040	043763-0009-SA
CAN113-B313-1050	043763-0010-SA

CAN113-B313-1062	043763-0011-SA
CAN113-B306-1020	043763-0012-SA
CAN113-B306-1025	043763-0013-SA
CAN113-B306-1035	043763-0014-SA
CAN113-B306-1045	043763-0015-SA
CAN113-B306-1055	043763-0016-SA
CAN113-B306-0561	043763-0017-SA (field duplicate of sample CAN113-B306-1055)

4.10.2 Volatile Organics By Method 8240

Samples were analyzed for volatile organics by method 8240. Samples CAN113-B303-1058, CAN113-B313-1062 and CAN113-B306-1055 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.2 were within acceptance limits with the exception of blank contamination.

4.10.2.1 Calibration

The %D's between the initial calibration on 03/06/95 and the continuing calibration (CCAL) on 08/04/95 for instrument N for the Appendix IX analytes ranged from -11,280 (1,2-dibromo-3-chloropropane) to + 54% (allyl chloride), as shown below:

Appendix IX Analyte	% Difference
Acetonitrile	-104
Allyl Chloride	+54
1,2-Dibromo-3-chloropropane (DBCP)	-11,280
1,4-Dioxane	-59
Isobutanol	-245
Methacrylonitrile	-108
Methyl methacrylate	-103
Propionitrile	-248

The RFs for these analytes in the initial calibration were significantly lower than those in the CCAL and significantly lower than the RFs for these analytes from the other instruments used

for analysis. It is the judgment of the data reviewer that the low RFs in the initial calibration were due to an instrument problem and that the RFs from the CCAL are more representative of the sensitivity of the analytical method to these analytes.

The RFs for acetonitrile, isobutanol and 1,4-dioxane were less than 0.05 in both the initial and continuing calibrations and the %Ds exceeded the 25% criterion. It is the judgment of the reviewer that the reporting limits for these analytes do not sufficiently reflect the changes in instrument sensitivity and therefore, the reporting limits for acetonitrile, isobutanol and 1,4-dioxane for the associated samples CAN113-B313-1062, CAN113-B306-1055 and CAN113-B306-0561 have been raised to 430, 725 and 840 ug/Kg, respectively for these analytes to reflect the change in sensitivity and qualified as estimated (UJ).

The extremely low instrument sensitivity exhibited in the initial calibration for DBCP has resulted in an undetermined bias in the reported results and, therefore, the DBCP result in the associated samples CAN113-B313-1062, CAN113-B306-1055 and CAN113-B306-0561 were qualified as unusable (R).

As the RFs for the remaining Appendix IX analytes listed above were greater than 0.05, it was the judgment of the data reviewer that the instrument sensitivity was sufficient to quantitate these analytes at the reporting limits and, therefore, no changes in the reporting limits for these analytes are considered necessary. The non-detect results reported for these analytes in the associated samples were qualified as estimated (UJ) due to the %D exceedances.

4.10.2.2 Blank Contamination

The method blank 03 AUG 95 H had methylene chloride reported as detected at concentrations of 3.94 µg/kg. The following samples were associated with this blank: CAN113-B303-1023, CAN113-B303-1028, CAN113-B303-1040, CAN113-B303-1050 and CAN113-B303-1058. The methylene chloride result was reported as less than ten times the amount in the method blank in sample CAN113-B303-1023 but greater than the reporting limit and was qualified as non-detect (U) reported value. Methylene chloride was reported as less than ten times the amount in the method blank and less than the reporting limit in sample CAN113-B303-1058 and was qualified as non-detect (U) at the reporting limit. Methylene

chloride results for the remaining sample data were non-detects and did not require qualification.

Methylene chloride was reported as detected at a concentration of 1.3 µg/kg in the method blank 03 AUG 95 D. Sample CAM113-B313-1032 was associated with this blank. Methylene chloride was reported as detected at a concentration less than ten times the amount found in the method blank and less than the reporting limit and was qualified as non-detect (U) at the reporting limit.

4.10.2.3 Tentatively Identified Compounds (TICs)

Volatile TICs were reported in seven of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B303-1023, CAN113-B303-1028, CAN113-B303-1040, CAN113-B303-1050, CAN113-B303-1058, and CAN113-B306-0561 and for 1,1,2-trichloro-1,2,2-trifluoroethane (Freon™ - common lab contaminant) in samples CAN113-B303-1028, CAN113-B303-1040, CAN113-B303-1050, and CAN113-B303-1058 were qualified as unusable (R). The other TIC reported in this data package, 2-butenyl-benzene, was reported as present in sample CAN113-B313-1027 and was qualified "NJ", tentatively identified, with an approximated concentration.

4.10.2.4 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and associated MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.10.3 Semivolatile Organics By Method 8270

Samples were analyzed for semivolatile organics by method 8270. Samples CAN113-B303-1058, CAN113-B313-1062 and CAN113-B306-1055 were analyzed for the appendix IX list

of compounds. The QC review parameters outlined in section 4.1.1.3 were within acceptance limits and no data qualification was required.

4.10.3.1 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in eight of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in samples CAN113-B303-1023 and CAN113-B303-1050 and for phthalates (common laboratory contaminant) in sample CAN113-B306-1035 were qualified as unusable (R).

The identification of 3-methoxy-(3.beta.)-D-friedoolean-14-ene in sample CAN113-B313-1000 (RT = 21.646 min) was considered to be unacceptable by the data reviewer. The relative intensities for several major ions (i.e., greater than 10% relative intensity) at m/z 41 to m/z 140 in the sample spectrum are significantly different than those present in the reference spectrum (see TIC reference spectrum for 3-methoxy-(3.beta.)-D-friedoolean-14-ene in data package 43562, sample 43562-10). The major ions in the sample spectrum at m/z 241, 295, 332, and 374 are absent from the reference spectrum. There was no indication of coelution at the retention time for this TIC in the total ion chromatogram for this sample. As such, the tentative identification of 3-methoxy-(3.beta.)-D-friedoolean-14-ene in sample CAN113-B313-1000 was changed to "unknown"

The identification of 9-octadecenoic acid (Z)-, 2,3-bis(acetyloxy)propyl ester in sample CAN113-B313-1000 (RT = 17.123 min) was considered to be unacceptable by the data reviewer. The relative intensities for several major ions (i.e., greater than 10% relative intensity) at m/z 55, 57, 98, and 117 in the sample spectrum are significantly different than those present in the reference spectrum. The major ion in the sample spectrum at m/z 183 is absent from the reference spectrum. There was no indication of coelution at the retention time for this TIC in the total ion chromatogram for this sample. As such, the tentative identification of 9-octadecenoic acid (Z)-, 2,3-bis(acetyloxy)propyl ester in sample CAN113-B313-1000 was changed to "unknown".

No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.10.3.2 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and the MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.10.4 Organochlorine Pesticide/PCBs By Method 8080

Samples were analyzed for pesticide/PCBs by method 8080. Samples CAN113-B303-1058, CAN113-B313-1062 and CAN113-B317-1053 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.4 were within acceptance limits with the exception of duplicate control sample RPDs and no data qualification was required.

4.10.4.1 Duplicate Control Samples

The duplicate control samples (QC lot: 10 AUG 95-N3) RPDs for gamma-BHC (21%), heptachlor (24%), aldrin (24%), dieldrin (12%), endrin (17%) and 4,4'-DDT (14%) exceeded the acceptance limits outlined in section 4.1.1.4. As all the DCS spike recoveries were within acceptance limits and the associated MS/MSD samples met acceptance criteria no data qualification was considered necessary.

4.10.4.2 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries, and MS/MSD recoveries and RPDs were satisfactory. As discussed in the section above the DCS RPDs were outside of acceptance criteria but were not considered to cause the associated sample data to be unsatisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.10.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B303-1058, CAN113-B313-1062 and CAN113-B306-1055, CAN113-B306-0561 were analyzed for organophosphorus pesticides. The QC review parameters outlined in section 4.1.1.5 were within acceptance limits and no data qualification was required.

4.10.5.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.10.6 Herbicides By Method 8150

Samples CAN113-B303-1023, CAN113-B303-1058, CAN113-B313-1027, CAN113-B313-1062, CAN113-B306-1020, CAN113-B306-1055 and CAN113-B306-0561 were analyzed for herbicides. The QC review parameters outlined in section 4.1.1.6 were within acceptance limits and no data qualification was required.

4.10.6.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.10.7 Metals

Samples were analyzed for metals by SW-846 methodology. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of blank contamination, laboratory duplicate precision and MS spike recoveries.

4.10.7.1 Blanks

For the method blank 14 AUG 95 ST, calcium was reported as detected at a concentration of 31.7 mg/kg. The samples associated with this blank were CAN113-B303-1023, CAN113-B303-1028, CAN113-B303-1040, CAN113-B303-1050, CAN113-B313-1000 and CAN113-B313-1027. Calcium results in these samples were reported at concentrations greater than 5X the amount found in the blank and no data qualification was necessary.

For the method blank 14 AUG 95 SU, calcium was reported as detected at a concentration of 22.8 mg/kg. The following samples were associated with this blank: CAN113-B313-1032, CAN113-B313-1040, CAN113-B313-1050, CAN113-B313-1062, CAN113-B306-1020, CAN113-B306-1025, CAN113-B306-1035, CAN113-B306-1045, CAN113-B306-1055 and CAN113-B306-0561. Calcium results in these samples were reported at concentrations greater than 5X the amount found in the blank and no data qualification was necessary.

4.10.7.2 Laboratory Duplicates

For sample CAN113-B303-1023 laboratory duplicate precision for calcium (50%) and magnesium (27%) exceeded the RPD limits specified in section 4.1.1.1. These results were qualified as estimated (J/UJ) in the associated sample data due to unsatisfactory precision. The following samples are associated with this duplicate: CAN113-B303-1023, CAN113-B303-1028, CAN113-B303-1040, CAN113-B303-1050 and CAN113-B303-1058.

For sample CAN113-B313-1032 laboratory duplicate precision for aluminum (83%), barium (56%), iron (77%), magnesium (29%) and manganese (22%) exceeded the RPD limits specified in section 4.1.1.1. These results were qualified as estimated (J/UJ) in the associated sample data due to unsatisfactory precision. The following samples are associated with this

duplicate: CAN113-B313-1027, CAN113-B313-1032, CAN113-B313-1040, CAN113-B313-1050, CAN113-B313-1062, CAN113-B306-1020, CAN113-B306-1025, CAN113-B306-1035, CAN113-B306-1045, CAN113-B306-1055 and CAN113-B306-0561.

4.10.7.3 MS Spike Recoveries

For sample CAN113-B301-1000 MS recoveries for antimony (28%), barium (79%), manganese (144%) and selenium (47%) were outside the acceptance limits specified in section 4.1.1.1. Sample CAN113-B313-1000 is associated with this spike. Manganese was reported as detected in the sample and the results qualified as estimated due to a high recovery. Barium and selenium results were qualified as estimated (J/UJ) due to low recoveries. Antimony was reported as not detected in this sample and the results was rejected (R) due to a spike recovery less than 30%.

For sample CAN113-B303-1023 MS recoveries for nickel (71%), silver (71%), selenium (38%) and thallium (37%) were outside the acceptance limits specified in section 4.1.1.1. The following samples were associated with this spike: CAN113-B303-1023, CAN113-B303-1028, CAN113-B303-1040, CAN113-B303-1050 and CAN113-B303-1058. These metal results in associated samples were qualified as estimated (J/UJ) due to low recoveries.

For sample CAN113-B313-1032 MS recoveries for antimony (33%), calcium (122%) and selenium (49%) were outside acceptance limits specified in section 4.1.1.1. Calcium was reported as detected in all associated samples and all results were qualified as estimated (J) due to high spike recoveries. All selenium and antimony results for associated samples were qualified as estimated (J/UJ) due to low spike recoveries. The following samples are associated with this spike: CAN113-B313-1027, CAN113-B313-1032, CAN113-B313-1040, CAN113-B313-1050, CAN113-B313-1062, CAN113-B306-1020, CAN113-B306-1025, CAN113-B306-1035, CAN113-B306-1045, CAN113-B306-1055 and CAN113-B306-0561.

4.10.7.4 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the MS

recoveries was acceptable with the exception noted in section 4.4.11.3 above. Precision with regard to the sample matrix as measured by the laboratory duplicate samples was satisfactory with the exceptions noted in section 4.4.11.2. Field duplicate results met acceptance criteria indicating satisfactory agreement. The antimony result for one of the samples was rejected by the reviewer and is not considered to be useable. All other metals data are considered useable as qualified by the reviewer.

4.10.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Samples were analyzed for TRPH by method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits, and no data qualification was required.

4.10.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs was satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.10.9 Total Organic Carbon (TOC)

Samples CAN113-B320-1052 and CAN113-B316-1050 were analyzed for TOC. The QC review parameters outlined in section 4.1.1.8 were within acceptance limits, and no data qualification was required.

4.10.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.10.10 Sulfide

Samples CAN113-B3303-1058, CAN113-B313-1062, CAN113-B306-1055 and CAN113-B306-0561 were analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required.

4.10.10.1 Overall Assessment

Accuracy and precision with regard to the method and the matrix as measured by the DCS and MS recoveries and the DCS and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.10.11 Cyanide

All samples were analyzed for cyanide. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits, and no data qualification was required.

4.10.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.11 QC REVIEW - DATA PACKAGE 043782

4.11.1 Introduction

Eleven samples, one field duplicate and one decontamination blank were analyzed for the following analyses: volatile organics, semivolatile organics, pesticide/PCBs, organophosphorus pesticides, herbicides, TCL metals, total recoverable petroleum

hydrocarbons, total organic carbon, cyanide and sulfide. Samples CAN113-B301-1063, CAN113-B302-1050 and CAN113-B301-0581 (decontamination blank) were analyzed for the appendix IX list of compounds. Sample CAN113-B301-1000 was assigned to two different samples on the Chain of Custody (COC) form. The laboratory prepared and analyzed these two samples with the laboratory identification 043782-0001-SA and 043782-0012-SA. Sample 043782-0012-SA should have been labeled as CAN113-B301-1001 on the COC form and was a surface soil sample collected approximately five feet from CAN113-B301-1000 and was intended to be used for QC sample analysis associated with all surface soil sample results. Sample CAN113-B301-1001 was used for the matrix spike, and laboratory duplicate. The form I reports for these analyses correctly reflect the designation as CAN113-B301-1001 The samples reported in this data package and their corresponding laboratory identifications are listed below.

FIELD ID	LABORATORY ID
CAN113-B301-1000	043782-0001-SA
CAN113-B301-1028	043782-0002-SA
CAN113-B301-1034	043782-0003-SA
CAN113-B301-1045	043782-0004-SA
CAN113-B301-1055	043782-0005-SA
CAN113-B301-1063	043782-0006-SA
CAN113-B302-1014	043782-0007-SA
CAN113-B302-1020	043782-0008-SA
CAN113-B302-1030	043782-0009-SA
CAN113-B302-1040	043782-0010-SA
CAN113-B302-1049	043782-0011-SA
CAN113-B301-1001	043782-0012-SA MS/MSD
CAN113-B301-0569	043782-0013-SA (field duplicate of CAN113-B301-1001)
CAN113-B301-0581	043782-0014-SA (decontamination blank)

The original case narrative indicated a blank contamination problem with antimony. When the reviewer checked the metals for blank contamination, tin was the actual contaminant. The laboratory resubmitted a corrected case narrative.

4.11.2 Volatile Organics By Method 8240

Samples were analyzed for volatile organics by method 8240. Samples CAN113-B301-1063, CAN113-B302-1050 and CAN113-B301-0581 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.2 were within acceptance limits and no data qualification was required.

4.11.2.1 Calibration

The %D's between the initial calibration on 03/06/95 and the continuing calibration (CCAL) on 08/07/95 for instrument N for the Appendix IX analytes ranged from -16,971 (1,2-dibromo-3-chloropropane) to + 33% (allyl chloride), as shown below:

Appendix IX Analyte	% Difference
Acetonitrile	-196
Allyl Chloride	+33
1,2-Dibromo-3-chloropropane (DBCP)	-16,971
1,4-Dioxane	-97
Isobutanol	-602
Methacrylonitrile	-238
Methyl methacrylate	-173
Propionitrile	-408

The RFs for these analytes in the initial calibration were significantly lower than those in the CCAL and significantly lower than the RFs for these analytes from the other instruments used for analysis. It is the judgment of the data reviewer that the low RFs in the initial calibration were due to an instrument problem and that the RFs from the CCAL are more representative of the sensitivity of the analytical method to these analytes.

The RF for 1,4-dioxane was less than 0.05 in both the initial and continuing calibration and the %D exceeded the 25% criterion. It is the judgment of the reviewer that the reporting limit for this analyte does not sufficiently reflect the changes in instrument sensitivity and therefore, the

reporting limit for 1,4-dioxane for the associated samples CAN113-B301-1063 and CAN113-B302-1050 have been raised to 1065 and 1025 ug/Kg, respectively, to reflect the change in sensitivity and qualified as estimated (UJ).

The extremely low instrument sensitivity exhibited in the initial calibration for DBCP has resulted in an undetermined bias in the reported results and, therefore, the DBCP result in the associated samples CAN113-B301-1063 and CAN113-B302-1050 were qualified as unusable (R).

As the RFs for the remaining Appendix IX analytes listed above were greater than 0.05, it was the judgment of the data reviewer that the instrument sensitivity was sufficient to quantitate these analytes at the reporting limits and, therefore, no changes in the reporting limits for these analytes are necessary. The non-detect results reported for these analytes in the associated samples were qualified as estimated (UJ) due to the %D exceedances.

4.11.2.2 Tentatively Identified Compounds

Two volatile TICs were reported as detected in sample CAN113-B301-1000. Both reported TIC identifications were considered acceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.11.2.3 Overall Assessment

Accuracy and precision with regard to the method and the sample matrix as measured by the SCS recoveries, DCS recoveries and RPDs, surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.11.3 Semivolatile Organics By Method 8270

Samples were analyzed for semivolatile organics by method 8270. Samples CAN113-B301-1063, CAN113-B302-1050 and CAN113-B301-0581 were analyzed for the appendix IX list

of compounds. The QC review parameters outlined in section 4.1.1.3 were within acceptance limits with the exception of blank contamination.

4.11.3.1 Blank Contamination

The method blank 05 AUG 95 S1 had diethyl phthalate reported as detected at a concentration of 1.1 µg/L. Diethyl phthalate was reported as non-detect in the associated sample analysis, CAN113-B301-0581, and no data qualification was required.

4.11.3.2 Tentatively Identified Compounds (TICs)

Semivolatile TICs were reported in two of the samples. The results reported for siloxanes (common laboratory artifact attributed to column bleed) in sample CAN113-B301-1063 were qualified as unusable (R).

The identification of .alpha.-amyrin in sample CAN113-B301-1000 (RT = 23.565 min) was considered to be acceptable by the data reviewer. Although there are significant differences in the relative intensities for several major ions (i.e., greater than 10% relative intensity) at m/z 55, 95 and 122 between the sample and reference spectra, it is the judgment of the data reviewer that the laboratory correctly identified the presence of .alpha.-amyrin in sample CAN113-B301-1000. The sample spectrum is, however, consistent with a potential coelution between .alpha.-amyrin and an unknown compound. As such, the reported concentration of .alpha.-amyrin reported by the laboratory is considered to be biased high and was qualified "NJ", tentatively identified, with approximated concentrations.

No other reported TIC identifications were considered unacceptable and results were qualified "NJ", tentatively identified, with approximated concentrations.

4.11.3.3 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the

matrix, as measured by the surrogate recoveries and the MS/MSD recoveries and RPDs were satisfactory. The sample data are considered useable as reported by the laboratory.

4.11.4 Organochlorine Pesticide/PCBs By Method 8080

Samples were analyzed for pesticide/PCBs. Samples CAN113-B301-1063, CAN113-B302-1050 and CAN113-B301-0581 were analyzed for the appendix IX list of compounds. The QC review parameters outlined in section 4.1.1.4 were within acceptance limits with the exception of DCS recoveries.

4.11.4.1 Duplicate Control Samples

For the DCSs analyzed in QC lot 07 AUG 95-S1, the average aqueous DCS recovery for gamma-BHC was below the 81-117% acceptance limits with an average recovery of 77%. Gamma-BHC was qualified as estimated (UJ) due to a potential low bias in the associated sample data. Sample CAN113-B301-0581 from this data package was associated with this DCS set.

4.11.4.2 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, DCS recoveries and RPDs were satisfactory with the exception of one aqueous DCS recovery associated with the decontamination water blank detailed above. Accuracy and precision with regard to the sample matrix as measured by the surrogate and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.11.5 Organophosphorus Pesticides By Method 8140

Samples CAN113-B301-1063, CAN113-B302-1050 and CAN113-B301-0581 were analyzed for the organophosphorus pesticides. The QC review parameters outlined in section 4.1.1.5 were within acceptance limits and no data qualification was required.

4.11.5.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.11.6 Herbicides By Method 8150

Samples CAN113-B301-1028, CAN113-B301-1063, CAN113-B302-1014, CAN113-B302-1050 and CAN113-B302-0581 were analyzed for herbicides. The QC review parameters outlined in section 4.1.1.6 were within acceptance limits with the exception of holding times.

4.11.6.1 Holding Times

The holding times from sample collection to extraction were exceeded by 4 days for samples CAN113-B301-1028 and CAN113-B301-1063. These samples were qualified as estimated (UJ) due to holding time criteria exceedance.

4.11.6.2 Overall Assessment

Accuracy and precision with regard to the method as measured by the SCS recoveries, and DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the surrogate recoveries and MS/MSD recoveries and RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. The sample data are considered useable as reported by the laboratory.

4.11.7 Metals

Samples were analyzed for metals by SW-846 methodology. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits with the exception of blank contamination and MS spike recoveries.

4.11.7.1 Blanks

The method blank 14 AUG 95 SU had calcium reported as detected at a concentration of 22.8 µg/kg. The samples associated with this blank are: CAN113-B301-1000, CAN113-B301-1028, CAN113-B301-1034, CAN113-B301-1045, CAN113-B301-1055, CAN113-B301-1063 and CAN113-B302-1014. Associated calcium sample results had concentrations greater than 5X the amount found in the blank and no data qualification was required.

The method blank 14 AUG 95 SV had calcium reported as detected at a concentration of 21.3 µg/kg. The samples associated with this blank are: CAN113-B302-1020, CAN113-B302-1030, CAN113-B302-1040, CAN113-B302-1050, CAN113-B301-1000, CAN113-B301-0569 and CAN113-B301-0581. Associated calcium sample results had concentrations greater than 5X the amount found in the blank and no data qualification was required.

The method blank 07 AUG 95 SC had zinc reported at a concentration of 0.16 µg/L. Zinc was qualified as a non-detect (U) in the decontamination water blank, CAN113-B302-0581 due to method blank contamination.

The Continuing Calibration Blank #1 (CCB1) analyzed 8/18/95 associated with sample CAN113-B302-0581 had tin detected at a concentration of -0.052 mg/L. This potential bias can result in false negative results, therefore, associated sample data were qualified as estimated (UJ).

The CCB1 analyzed 8/17/95 had cobalt detected at an equivalent concentration of -0.78 mg/kg. The associated samples are: CAN113-B301-1000, CAN113-B301-1045, CAN113-B301-1055, CAN113-B301-1063, CAN113-B302-1020, CAN113-B302-1040 and CAN113-B302-1050. Cobalt results less than or equal to 3X the absolute value of the amount found in the blank were reported as detected in samples CAN113-B301-1000, CAN113-B301-1045, CAN113-B301-1063, CAN113-B302-1020 and CAN113-B302-1040 and were qualified as estimated (J) due to a potential low bias. Cobalt results reported as non-detects in samples CAN113-B301-1055 and CAN113-B302-1050 were qualified as estimated (UJ) due to a potential low bias.

The CCB4 analyzed 8/17/95 had cadmium detected at an equivalent concentration of -0.36 mg/kg. The samples associated with this blank are: CAN113-B302-0569, CAN113-B301-1028, CAN113-B301-1034, CAN113-B302-1014 and CAN113-B302-1030. Cadmium results in these samples were all reported as non-detects and were qualified as estimated (UJ) due to a potential low bias.

4.11.7.2 MS/MSD Spike Recoveries

For sample CAN113-B301-1000 MS recoveries for antimony (28%), barium (79%), manganese (144%), selenium (47%), and thallium (56%) were outside the acceptance limits specified in section 4.1.1.1. All samples in this data package were associated with this spike. All manganese results were reported as detected and were qualified as estimated due to a high recovery. All barium, selenium and thallium results were qualified as estimated (J/UJ) due to low recoveries. All eleven antimony results were reported as non-detects and were rejected (R) due to a spike recovery less than 30%.

4.11.7.3 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy with regard to the matrix, as measured by the MS recoveries was acceptable with the exception noted in section 4.12.7.3 above. Precision with regard to the sample matrix as measured by the laboratory duplicate sample was satisfactory with the exceptions noted in section 4.12.7.2 above. Field duplicate results met acceptance criteria indicating satisfactory agreement. All antimony sample data reported in this data package were rejected by the reviewer and are not considered to be useable. All other metals data are considered useable as qualified by the reviewer.

4.11.8 Total Recoverable Petroleum Hydrocarbons (TRPH)

Samples were analyzed for TRPH by method 418.1. The QC review parameters outlined in section 4.1.1.7 were within acceptance limits, and no data qualification was required.

4.11.8.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs and laboratory duplicate RPDs were satisfactory. Accuracy and precision with regard to the matrix, as measured by the MS/MSD recoveries and RPDs was satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.11.9 Total Organic Carbon (TOC)

Samples CAN113-B301-1045, CAN113-B302-1030 and CAN113-B302-0581 were analyzed for TOC. The QC review parameters outlined in section 4.1.1.8 were within acceptance limits, and no data qualification was required.

4.11.9.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.11.10 Sulfide

Samples CAN113-B301-1063 and CAN113-B302-1050 were analyzed for sulfide. The QC review parameters outlined in section 4.1.1.9 were within acceptance limits, and no data qualification was required

4.11.10.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance

criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.

4.11.11 Cyanide

Samples were analyzed for cyanide. The QC review parameters outlined in section 4.1.1.1 were within acceptance limits, and no data qualification was required.

4.11.11.1 Overall Assessment

Accuracy and precision with regard to the method as measured by the DCS recoveries and RPDs and laboratory duplicate RPDs were satisfactory. Accuracy and precision with regard to the matrix as measured by the MS recoveries and duplicate RPDs were satisfactory. Field duplicate results met acceptance criteria indicating satisfactory agreement. Sample data are considered useable as reported by the laboratory.