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FINAL PRELIMINARY SITE CHARACTERIZATION REPORT
SITE 16
NAVAL AIR STATION
PENSACOLA, FLORIDA

N00204.AR.001426
NAS PENSACOLA
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CONTRAC NUMBER:

Prepared for:

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY (CLEAN)
NAVAL *AIR* STATION
PENSACOLA, FLORIDA

Prepared by:

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5720 Summer Trees Drive, Suite 8
Memphis, Tennessee 38134
(901) 383-9115

June 13, 1997

FINAL PRELIMINARY SITE
CHARACTERIZATION REPORT
SITE 16
NAVAL *AIR* STATION
PENSACOLA, FLORIDA

SOUTHNAVFACENGCOM
CONTRACT **NUMBER:**
N62467-89-D-0318
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Prepared for:

COMPREHENSIVE LONG-TERM
[illegible] NAVY [illegible]
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PENSA[illegible]

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The Contractor, EnSafe/Allen & Hoshall, hereby **certifies** that, to the best of **its** knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0318 **is** complete, accurate, and complies with **all requirements** of the contract.

Date: June 13. 1997
Signature: Allison Dennen
Name: **Allison Dennen**
Title: Task Order Manager

June 13, **1997**

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19 Abstract

A [illegible] site [illegible] was conducted for Category VII — Site 16 (the Brush Disposal Area) to assess whether inorganic or organic constituents were present above surface soil, subsurface [illegible], and groundwater preliminary [illegible] goals [illegible]

To confirm the absence of [illegible] were advanced to the water table, with surface and subsurface soil [illegible] collected for full Target Analyte List/Target [illegible] Eight of the 12 [illegible] were [illegible] into shallow groundwater monitoring [illegible] samples were collected from these eight wells.

The surface soil [illegible] consists of about 2 feet [illegible] brown, fine to coarse sand. Many borings encountered a dark gray to black, organic-rich [illegible] sand layer from [illegible] 2 to 4 feet below land surface (bls). Groundwater was [illegible] encountered at about 4 feet bls. From [illegible] to the terminating depth of the borings is a natural buff to light tan, [illegible]

One organic and three inorganic parameters were detected in laboratory-analyzed samples. The analytical data were compared to risk-based, surface and subsurface soil, as well as groundwater, PRGs. Parameters above PRGs were metals and a single high molecular weight polynuclear aromatic hydrocarbon (PAH).

Arsenic appears to be the prevalent inorganic constituent throughout surface soil in the Site 16 area, present above the risk-based concentration (RBC) at six borings advanced onsite. Arsenic concentrations do not exceed its Naval Air Station (NAS) Pensacola reference concentration. Iron exceeds its PRG and the NAS Pensacola reference concentration in one location. Surface soil benzo(a)pyrene above standards in boring 16S05 may have come from oil or fuel residuals dripped from, or spillage during refueling of, a bulldozer typically parked at this location. The bulldozer is used for the Brush Disposal Area operation.

The groundwater evaluation identified aluminum, iron, and manganese above secondary standards, and one instance each of aluminum and iron above their respective NAS Pensacola reference concentrations. No organics were present in groundwater samples. The absence of inorganic and organic soil contaminants in site groundwater indicates that parameters are not leaching to groundwater at Site 16. The primary receiving aquifer within the Site 16 area is the surficial zone of the Sand-and-Gravel Aquifer, which is not used as a potable water supply at NAS Pensacola due to the availability of municipal water. the ambient concentrations of some metals. and the potential for saltwater intrusion induced by pumping. Given that the upper surficial zone not utilized as a drinking water source, no remedial recommendation to address aluminum, iron, or manganese is made. The primary surface water body receptor is the Bayou Grande. No wetlands exist in the vicinity of Site 16.

No further action is recommended with respect to Site 16 soil due to the absence of my major contamination onsite. A comparison of other constituents to applicable and relevant or appropriate requirements supports a conclusion of no further action for soil based on the following analyses: (1) Soil inorganic constituents above standards are similar in type, frequency of occurrence, and concentrations as those identified in all previously investigated sites on the eastern portion of NAS Pensacola, implying these constituents are not unique to this site; (2) the surface soil PAH concentration exceeding standards likely originated from residual oil or fuel dripping from, or spillage from the refueling of, a bulldozer used in Brush Disposal Area operations; (3) leaching of the surface PAH are mitigated by the overlying impervious asphalt roadbed; and (4) leaching to groundwater of similar soil inorganic and PAH constituents and concentrations above standards have not been noted on nearby sites.

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Table of Contents

LIST OF ACRONYMS AND ABBREVIATIONS iv

EXECUTIVE SUMMARY vi

1.0 INTRODUCTION 1-1

2.0 SITE DESCRIPTION AND HISTORY 2-1
- 2.1 Site Description 2-1
- 2.2 Site History 2-1

3.0 ENVIRONMENTAL SETTING 3-1
- 3.1 Physiography 3-1
- 3.2 Stratigraphy and Hydrogeology 3-1
- 3.3 Ecological Setting 3-6
  - 3.3.1 Regional Ecological Setting 3-6
  - 3.3.2 Ecological Setting at NAS Pensacola 3-7
  - 3.3.3 Site-Specific Setting 3-9
- 3.4 Area Climate 3-10

4.0 FIELD INVESTIGATION AND METHODS 4-1
- 4.1 Contaminant Source Survey 4-1
- 4.2 Geophysical Survey 4-2
- 4.3 Soil Boring and Sampling Methodology 4-2
- 4.4 Groundwater Monitoring 4-5
  - 4.4.1 Monitoring Well Construction 4-5
  - 4.4.2 Monitoring Well Development 4-6
  - 4.4.3 Groundwater Contamination Assessment Sampling 4-6
- 4.5 Fieldwork and Sampling Protocols 4-7
  - 4.5.1 Sample Handling and Management 4-7
  - 4.5.2 Quality Assurance/Quality Control Samples 4-7
  - 4.5.3 Sample Containers and Preservation 4-8
  - 4.5.4 Field Data 4-8
  - 4.5.5 Decontamination 4-8
  - 4.5.6 Investigation-Derived Wastes 4-8
- 4.6 Site Area Land Survey 4-8
- 4.7 Site Area Hydrologic Investigation 4-8

5.0 GEOLOGIC ASSESSMENT RESULTS 5-1

Table of Contents (cont'd)

6.0 NATURE AND EXTENT OF CONTAMINATION 6-1
6.1 Soil/Sediment Contamination Assessment 6-2
6.2 Summary and Conclusions 6-5
6.3 Summary and Conclusions 6-5

7.0 DATAVALIDATION 7-1
7.1 Data Quality 7-2
7.2 Organic Analysis 7-2
7.2.1 Holding Times 7-2
7.2.2 Calibrations 7-4
7.2.3 Blanks 7-5
7.2.4 Matrix Spikes/Matrix Spike Duplicates 7-6
7.2.5 Laboratory Control Samples (LCS) 7-6
7.2.6 Surrogates 7-7
7.2.7 Internal Standards 7-7
7.2.8 Field Duplicates 7-8
7.2.9 Compound Quantitation 7-8
7.3 Inorganic Analysis 7-9
7.3.1 Holding Times 7-9
7.3.2 Calibration 7-10
7.3.3 Blanks 7-10
7.3.4 Inductive Coupled Plasma (ICP) Interference Check Sample Analysis 7-10
7.3.5 ICP Serial Dilutions 7-10
7.3.6 Laboratory Control Sample (LCS) Analysis 7-11
7.3.7 Laboratory Duplicates/Spikes 7-11
7.3.8 Field Duplicates 7-11
7.4 Summary 7-12
7.4.1 Completeness 7-12
7.4.2 Comparability 7-12
7.5 Conclusion 7-12

8.0 FATEANDTRANSPORT 8-1
8.1 Sources of Detected Constituents 8-1
8.2 Contaminant Migration 8-1

9.0 CONCLUSIONS AND RECOMMENDATIONS 9-1

10.0 REFERENCES 10-1

11.0 FLORIDA PROFESSIONAL GEOLOGIST SEAL 11-1

List of Figures

Figure 2-1 Site Location Map 2-2
Figure 2-2 Site Area Map 2-3
Figure 3-1 Generalized Geologic Cross Section of Hydrogeologic Units in Northwest Florida 3-2
Figure 3-2 Generalized Geological Cross Section of the Surficial Aquifer at NAS Pensacola 3-4
Figure 4-1 Site 16 Soil Boring and Monitoring Well Locations 4-3
Figure 5-1 Shallow Surficial Piezometric Surface 5-2
Figure 6-1 Site 16 Inorganics Detected Above Preliminary Remediation Goals in Soil Samples 6-3
Figure 6-2 Site 16 Organics Detected Above Preliminary Remediation Goals in Soil Samples 6-4
Figure 6-3 Site 16 Inorganics Detected Above Preliminary Remediation Goals in Groundwater Samples 6-6

List of Tables

Table 4-1 Site 16 Soil Samples and Analytical Parameters 4-4
Table 4-2 Construction Details/Potentiometric Information Site 16 Monitoring Wells 4-5
Table 4-3 Final Water Quality Parameter Details Site 16 Monitoring Well Development 4-6
Table 4-4 Site 16 Groundwater Samples and Analytical Parameters 4-7
Table 5-1 Horizontal Hydraulic Gradient/Flow Velocity 5-3
Table 7-1 Site 16 Volatile SDG Summary 7-3
Table 7-2 Site 16 Semivolatile SDG Summary 7-3
Table 7-3 Site 16 Pesticide/PCB SDG Summary 7-3
Table 7-4 Site 16 Inorganic SDG Summary 7-4

List of Appendices

Appendix A Geophysical Report for Sites 4, 7, and 16 for NAS Pensacola
Appendix B Soil Boring Logs and Monitoring Well Construction Diagrams
Appendix C Preliminary Remediation Goals
Appendix D Sample Values Exceeding PRGs
Appendix E Database Summary of Analytical Data
Appendix F Grain Size Analysis Results

List of Acronyms and Abbreviations

µg/kg	Micrograms per kilogram
ARARs	Applicable and Relevant or Appropriate Requirements
bls	Below land surface
CG	Cleanup Goal
CLP	Contract Laboratory Program
CSAP	Comprehensive Sampling and Analysis Plan
DQO	Data Quality Objective
E/A&H	EnSafe/Allen & Hoshall
E&E	Ecology and Environment, Inc.
FDEP	Florida Department of Environmental Protection
FNAI	Florida Natural Areas Inventory
ft/day	Feet per day
G&M	Geraghty & Miller, Inc.
GPS	Global Positioning System
GS	Grain Size
IS	Internal Standard
IAS	Initial Assessment Study
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
IRP	Installation Restoration Program
IPA	Isopropanol alcohol
LCS	Laboratory Control Sample
mg/kg	Milligrams per kilogram
MS	Matrix spike
MSD	Matrix Spike Duplicate
msl	Mean sea level
NAS	Naval Air Station
NEESA	Naval Energy and Environmental Support Activity
NFESC	Naval Facilities Engineering Services Center
OSWER	Office of Solid Waste and Emergency Response
OU	operational unit
PAH	Polynuclear Aromatic Hydrocarbon
PCBs	Polychlorinated Biphenyls
PRG	Preliminary Remediation Goal
PSC	Preliminary Site Characterization
QA/QC	Quality Assurance/Quality Control
RBC	Risk-based Concentration
SAP	Sampling and Analysis Plan
SDG	Sample delivery group
SEGS	Southeastern Geological Society
SMCL	Secondary Maximum Contaminant Level
SMP	Site Management Plan

List of Acronyms and Abbreviations (cont'd)

SOW	statement of work
SQUAGs	Sediment Quality Assessment Guidelines
SSL	Soil Screening Level
SSV	Sediment Screening Value
SOUTHNAVFACENGCOM	Southern Division Naval Facilities Engineering Command
TAL	Target Analyte List
TCL	Target Compound List
TEL	Threshold Effects Level
TRPH	Total Recoverable Petroleum Hydrocarbons
USEPA	U.S. Environmental protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological survey

EXECUTIVE SUMMARY

A preliminary site characterization was conducted for Category VII – Site 16 (the Brush Disposal Area) to assess whether inorganic or organic constituents were present above surface soil, subsurface soil, and groundwater preliminary remediation goals (PRGs).

To confirm the absence of contaminants, 12 borings were advanced to the water table, with surface and subsurface soil samples collected for full Target Analyte List/Target Compound List (TAL/TCL) analyses. Eight of the 12 borings were converted into shallow groundwater monitoring wells. Groundwater samples were collected from these eight wells.

The surface soil layer consists of about 2 feet of light brown, fine to coarse sand. Many borings encountered a dark gray to black, organic-rich silty sand layer from approximately 2 to 4 feet below land surface (bls). Groundwater was commonly encountered at about 4 feet bls. From approximately 4 feet bls to the terminating depth of the borings is a natural buff to light tan, fine- to coarse-grained quartz sand.

One organic and three inorganic parameters were detected in laboratory-analyzed samples. The analytical data were compared to risk-based, surface and subsurface soil, as well as groundwater, PRGs. Parameters above PRGs were metals and a single high molecular weight polynuclear aromatic hydrocarbon (PAH).

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1.0 INTRODUCTION

Under the authority of the U.S. Navy Comprehensive Long-term Environmental Action Navy program, a preliminary Site Characterization (PSC) was recently completed at Site 16 - the Brush Disposal Area, at Naval Air Station (NAS) Pensacola. This screening site is listed under Category VII of the Site Management Plan of the Installation Restoration Program (IRP) for NAS Pensacola (SOUTHNAVFACENGCOM, 1995). Site 16 is situated near the eastern end of Runway 09/27 at Forrest Sherman Field.

The investigation was undertaken by EnSafe/Allen & Hoshall (E/A&H) to meet the requirements of the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, which administers the investigation and cleanup of hazardous waste sites. The PSC report summarizes the investigation activities and presents findings and conclusions.

Investigation Objectives

The objectives of this investigation were to determine whether there a source(s) of soil or groundwater contamination is onsite and, if so, to determine its nature, magnitude, and extent, and use validated sample data to address the contamination and recommend appropriate action.

The investigation was conducted in phases to allow for real-time data input from the Tier One team, before proceeding. Thus, the investigation incorporated periodic input from the U.S. Environmental Protection Agency (USEPA) and the Florida Department of Environmental Protection (FDEP).

The investigation included:

- A review of the site's history, background, and previous investigations.
- A geophysical survey to identify any anomalous subsurface features.

- A preliminary field survey to characterize the study area.
- The advancement of soil borings and collection of soil samples for chemical analysis.
- The installation of groundwater monitoring wells and collection of groundwater samples for chemical analysis.

Purpose of the Report

This PSC report summarizes the activities, results, and conclusions of the overall investigation, and documents the data collection and analytical methods.

2.0 SITE DESCRIPTION AND HISTORY

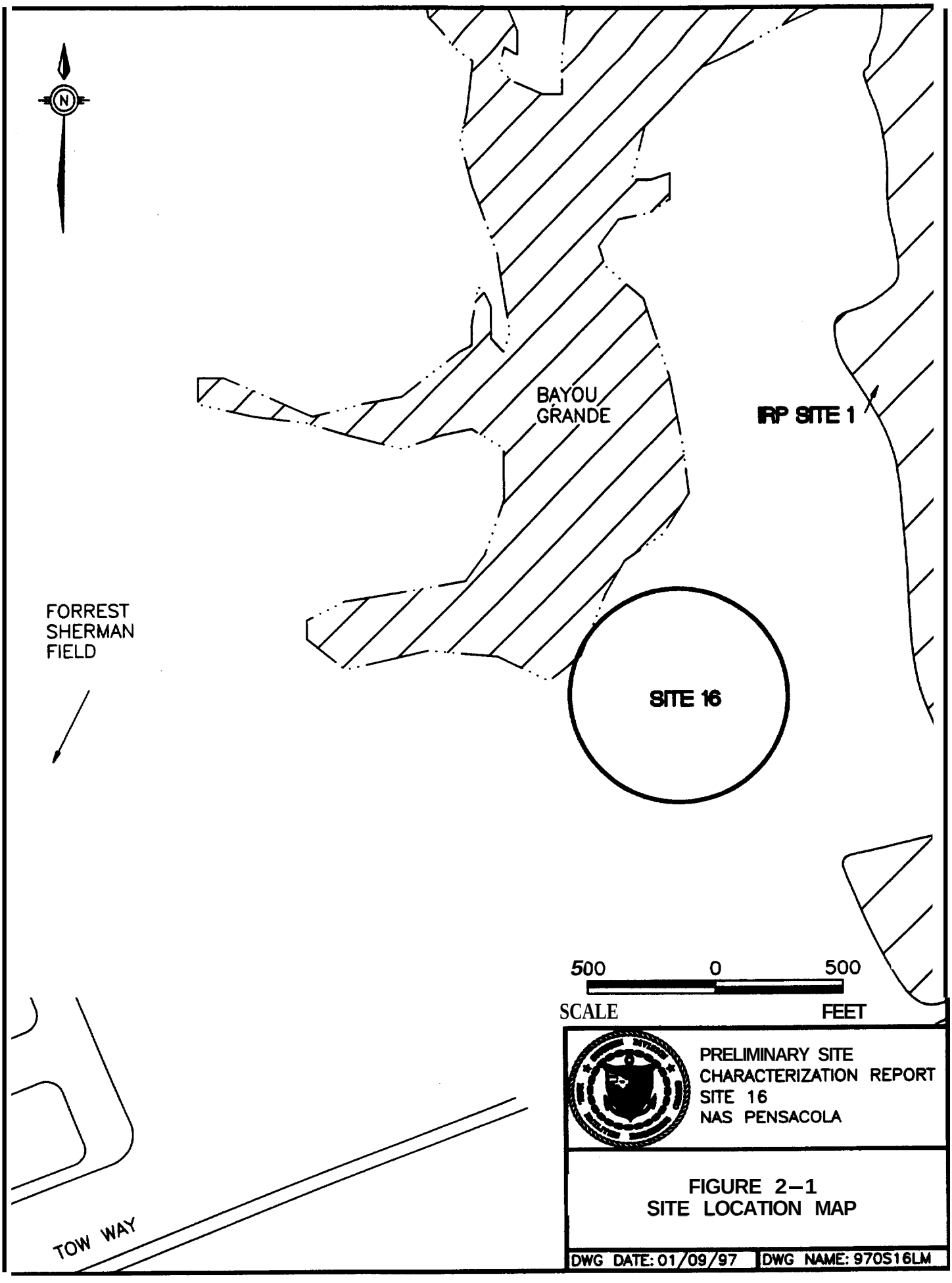
2.1 Site Description

Site 16 is near the eastern end of Runway 09/27 at Forrest Sherman Field. Aerial photographs were analyzed due to limited information. The photos suggest the site is approximately 30 acres in size. The site contains a cleared area to the southeast, used for brush disposal since the mid-1980s. An NAS Pensacola water supply well (Well No. 3) is 2,500 feet southwest of the site (E&E, 1992a). The nearest IRP monitoring wells are about 900 feet to the east of the site (Remedial Investigation [RI] Site 1 wells). No monitoring wells are in the site's immediate vicinity. Figure 2-1 displays the site's location with respect to surrounding points.

The vicinity of Site 16 is generally flat. To the north is a sparsely wooded area, bordering an inlet of Bayou Grande, which appears to have been used from the early 1970s until the mid-1980s. To the southwest is an area used prior to the early 1970s, now wooded. To the south of the site are woods and the Southeast Drainage Ditch, which curves north to the current disposal area's western boundary. A wooded area constituting a portion of RI Site 1 lies to the east. Figure 2-2 depicts the layout of the site area.

2.2 Site History

Site 16 has been used for the disposal of brush and tree limbs from pruning and tr[redacted]g at NAS Pensacola since the late 1960s. Analysis of aerial photographs taken before 1951 suggest the Army may have used a portion of the site to incinerate garbage and for asb disposal. An Initial Assessment Study (IAS) performed by the Naval Energy and Environmental Support Activity (NEESA) in 1983 stated the site contained only brush, tree limbs, and some metal refuse. The NEESA study concluded that hazardous waste had not been disposed of at Site 16. The IAS also indicated there was no *threat* to human health or the environment. A preliminary site reconnaissance conducted by Ecology and Environment, Inc. of Pensacola, Florida, in 1989


N
BAYOU GRANDE
IRP SITE 1
FORREST SHERMAN FIELD
SITE 16
500 0 500
SCALE FEET
TOW WAY
PRELIMINARY SITE CHARACTERIZATION REPORT
SITE 16
NAS PENSACOLA
FIGURE 2-1
SITE LOCATION MAP
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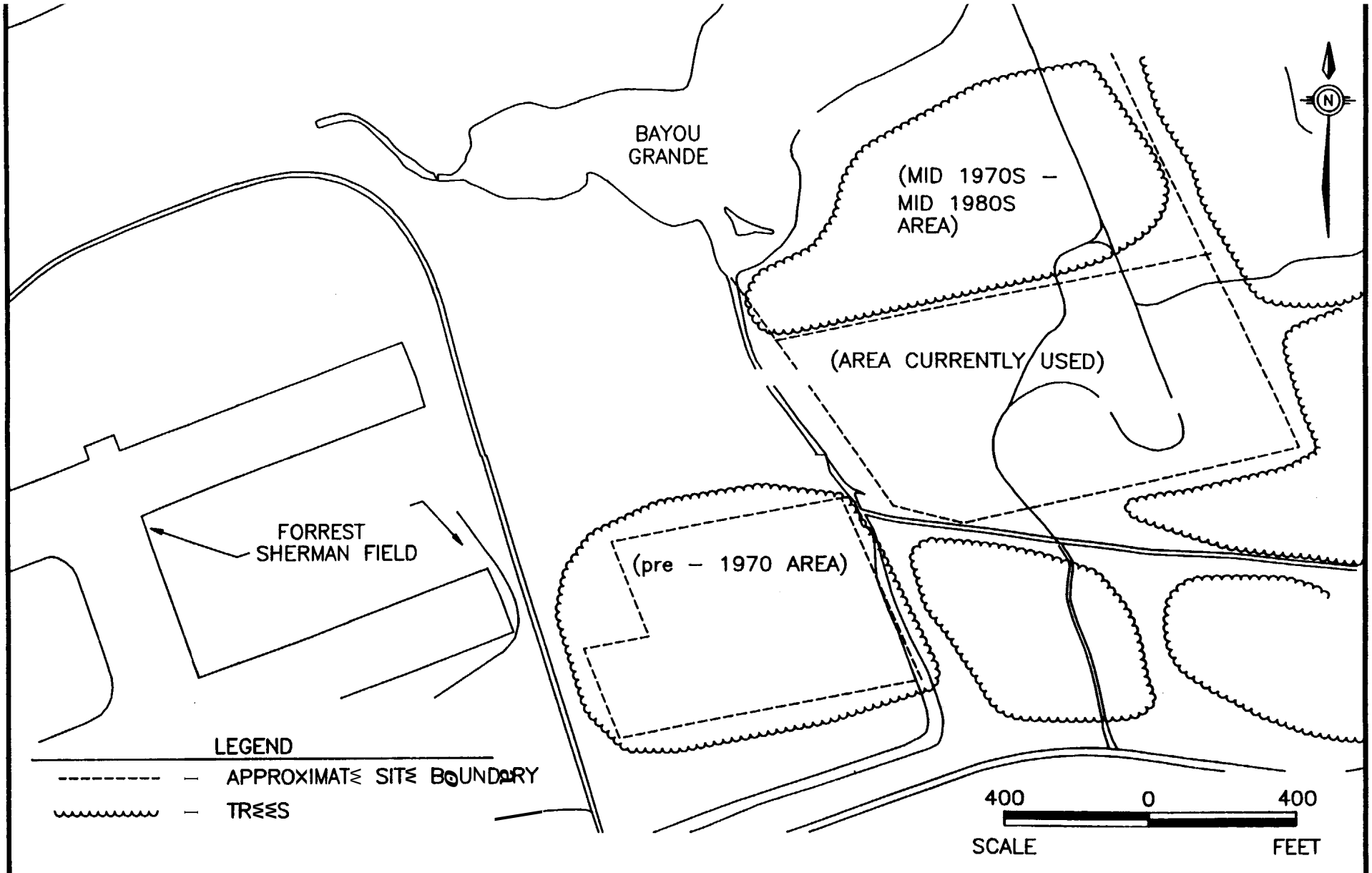
DWG NAME: 970S16LM



PRELIMINARY SITE
CHARACTERIZATION REPORT
SITE 16
NAS PENSACOLA

FIGURE 2–2
SITE AREA MAP

DWG DATE: 01/09/97 | DWG NAME: 970S16SA

and 1990 indicated the refuse had been removed from the site, though charred debris still remained along the drainage ditch (E&E, 1992a). No investigation involving soil or groundwater sampling has been performed at Site 16.

3.0 ENVIRONMENTAL SETTING

3.1 Physiography

NAS Pensacola is in the Gulf Coast lowlands on a peninsula bounded by Pensacola Bay to the south and east and Bayou Grande to the north. The main topographic feature is a bluff paralleling the southern and eastern shorelines of the peninsula. Landward of the bluff is a gently rolling upland with elevations up to 40 feet above mean sea level (msl) (USGS, 1970ab). In the eastern part of the base, a low and nearly level marine terrace lies east of the bluff with elevations of approximately 5 feet or less above msl, constituting the areas of the former Chevalier Field and Magazine Point.

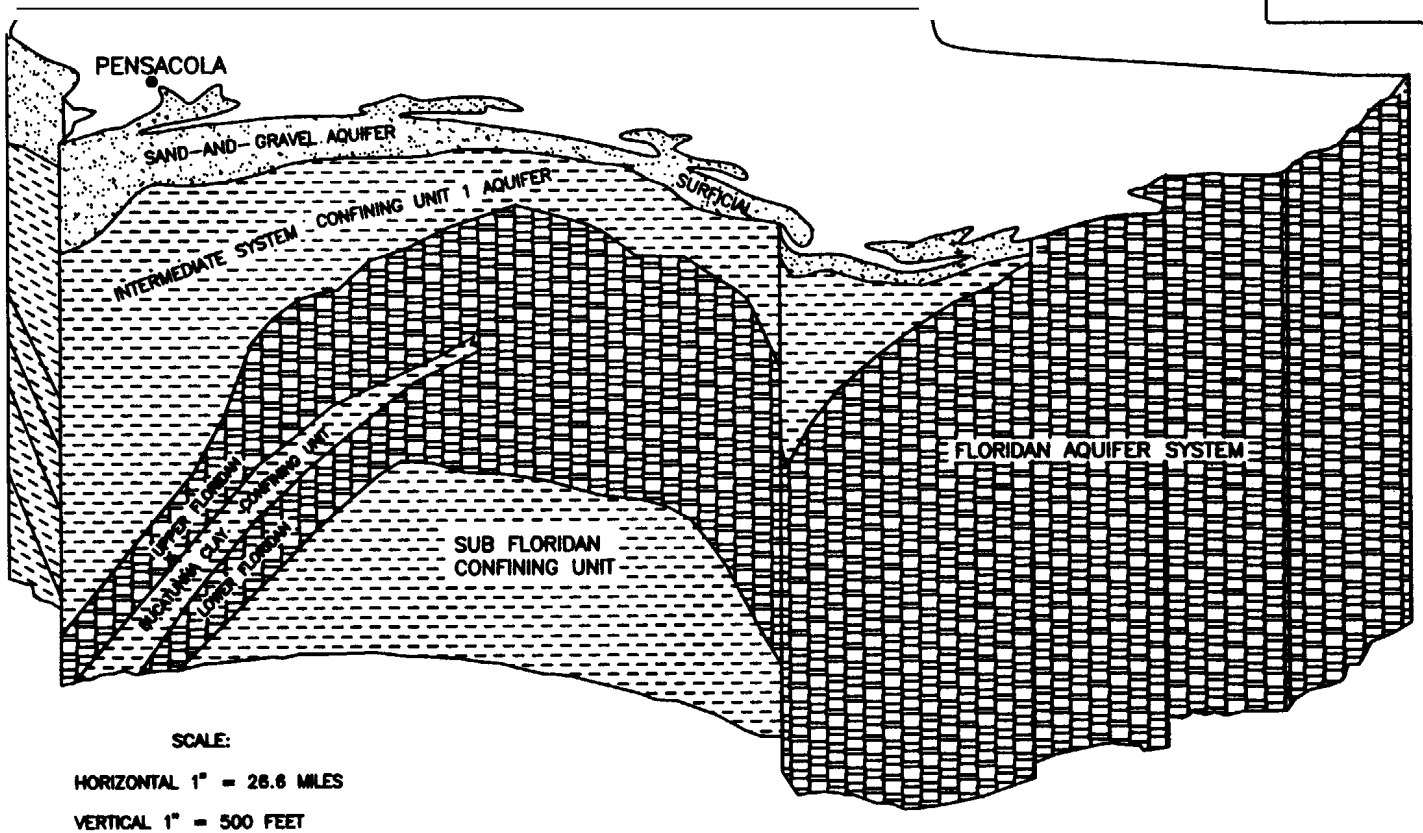
Sandy soils typify the NAS Pensacola area. Consequently, most rainfall infiltrates directly into the subsurface, resulting in few natural streams. Streams on base generally are man-made and channelized. Numerous natural wetlands occur in low-lying areas.

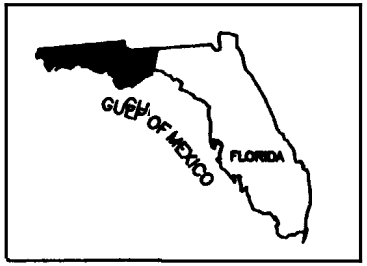
3.2 Stratigraphy and Hydrogeology

Stratigraphy beneath the Florida Panhandle generally consists of Quaternary marine terrace and fluvial deposits, underlain by a thick sequence of interlayered fine-grained clastic deposits and carbonate strata of Tertiary age (SEGS, 1986). Three main regional hydrogeologic units have been described within this stratigraphic column (in descending order): the Surficial/Sand-and-Gravel Aquifer, the Intermediate System, and the Floridan Aquifer System. Figure 3-1 provides a generalized cross section of these hydrogeologic units in northwest Florida.

Surficial/Sand-and-Gravel Aquifer

The Surficial Aquifer, comprising primarily unconsolidated siliciclastic sediments, is approximately 300 feet thick at NAS Pensacola. These sediments belong to undifferentiated





SCALE:

HORIZONTAL 1" = 26.6 MILES

VERTICAL 1" = 500 FEET

VERTICAL EXAGGERATION = 281

SOURCE: E&E 1992c.

PRELIMINARY SITE
CHARACTERIZATION REPORT
SITE 16
NAS PENSACOLA

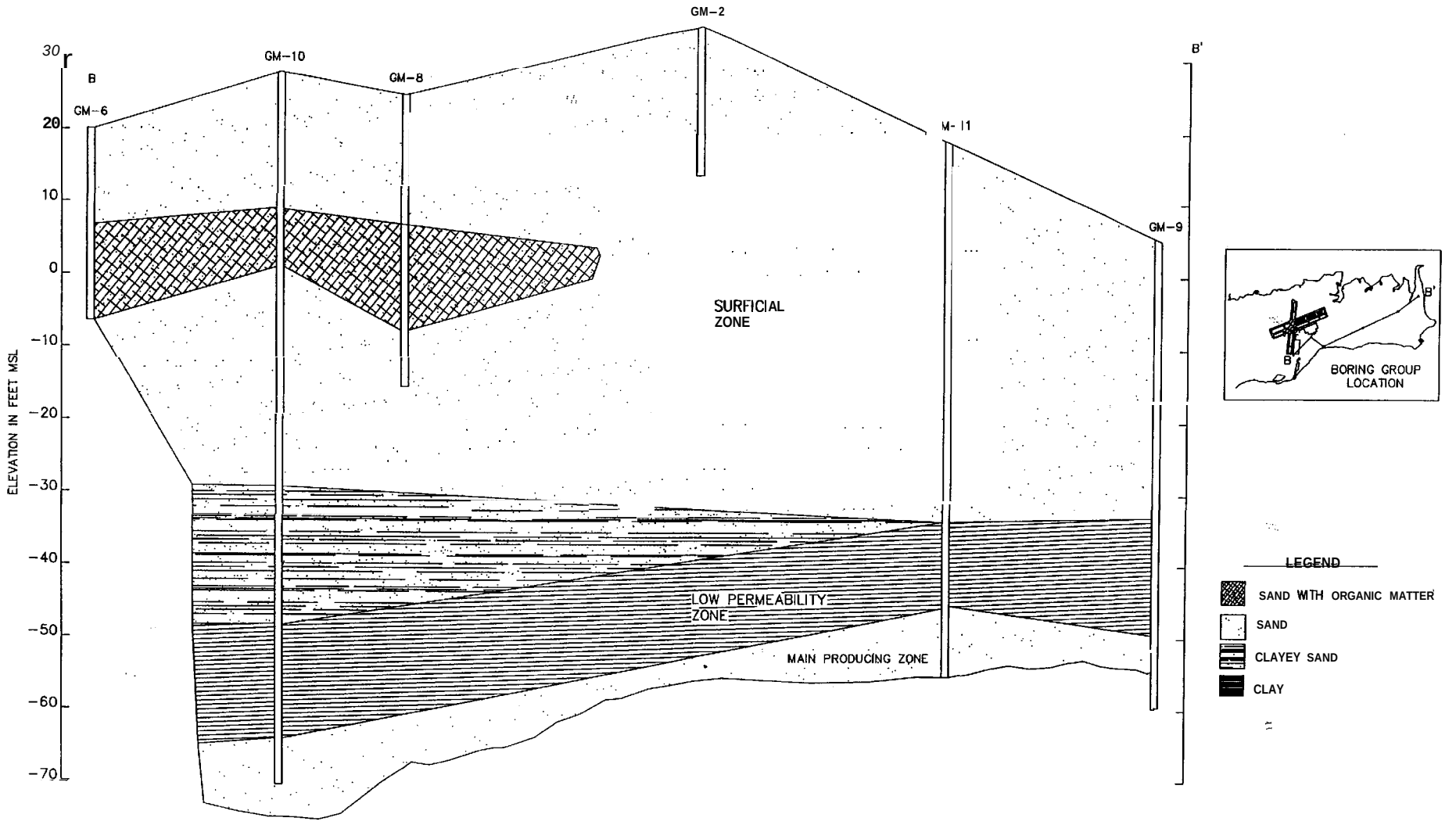
FIGURE 3-1
GENERALIZED GEOLOGIC CROSS-SECTION OF
HYDROGEOLOGIC UNITS IN
NORTHWEST FLORIDA

DATE: 01/09/97 | DWG NAME: 970S16GC

Pleistocene-Holocene terrace deposits, the Pliocene Citronelle formation, and underlying Miocene coarse clastics (Wilkins et al., 1985). West of the Choctawhatchee River in northwest Florida, the Surficial Aquifer is referred to as the Sand-and-Gravel Aquifer, and is a major source of drinking water (SEGS, 1986). The FDEP classification of the surficial aquifer is G-1 with a USEPA classification of IIA. Because the Sand-&-Gravel Aquifer is the uppermost unit contiguous with land surface and receives recharge through direct infiltration, it is susceptible to contamination from surface activities. Near NAS Pensacola, the unit has been subdivided into three distinct zones based on hydrogeologic differences (in descending order): the *surficial zone, the low permeability zone,* and *the main producing zone* (Wilkins et al., 1985). This investigation focuses on the upper (shallow depth) and basal (intermediate depth) portions of the surficial zone. A generalized cross section of the Sand-and-Gravel Aquifer produced by Geraghty and Miller, Inc. (G&M) in 1984, as shown in Figure 3-2, illustrates the stratigraphic relationship of these zones.

Surficial Zone

The surficial zone is contiguous with land surface and contains groundwater under water table or perched conditions. At NAS Pensacola, the surficial zone is approximately 40 to 60 feet thick and is generally composed of a poorly graded quartz sand (G&M, 1984 and 1986). Beneath the western side of the base, a substantial stratum of sand with abundant organic matter occurs within the zone and pinches out to the east. Depth to groundwater ranges from 0 to 20 fed depending on ground surface elevation. Aquifer tests have yielded high hydraulic conductivities, on the order of 10^{+1} to 10^{+2} feet/day (ft/day) (E&E], 1990). The lower contact with the low permeability zone is transitional, resulting in a fining downward sequence in the lower portion of the surficial zone proper. Generally, the low permeability zone is thicker to the west, and thins to the east. This increased clay content in the transition from the surficial to the low permeability zone is responsible for lower hydraulic conductivities that have been measured in the base of



SOURCE GERAGHTY & MILLER, 1986

PRELIMINARY SITE CHARACTERIZATION REPORT
SITE 16
NAS PENSACOLA

FIGURE 3-2
GEOLOGICAL CROSS-SECTION OF THE SURFICIAL AQUIFER AT NAS PENSACOLA

DATE: 01/09/97 | DWG NAME: 970S1632

the surficial zone. Shallow groundwater flow in the surficial zone is generally influenced by topography, usually flowing toward and discharging to the nearest surface water body.

Low Permeability Zone

The low permeability zone underlies the surficial zone and is characterized by clay and silt-sized sediments. At NAS Pensacola, this zone comprises gray to blue-gray sandy and silty marine clay with some shell fragments and clayey sands, with total thickness ranging from 8 to 40 feet (G&M, 1984 and 1986). The upper contact is transitional with the overlying surficial zone; however, the top of the low permeability zone is marked by the first occurrence of a stiff blue-gray clay. Studies at NAS Pensacola indicate the low permeability zone is continuous beneath the air station. Hydraulic conductivities of the low permeability zone are much lower than the overlying surficial zone, ranging between the orders of 10^{-4} ft/day for clays and 10^{+0} ft/day for clayey sands (G&M, 1986). Hence, the low permeability zone acts as a confining or semiconfining layer to inhibit groundwater flow between the overlying surficial and underlying main producing zone.

Main Producing Zone

The main producing zone underlies the low permeability zone and constitutes the bottom portion of the Sand-and-Gravel Aquifer. Regionally, depth to the top of the zone ranges from 60 to 120 feet. The zone is composed of sand and gravel with thin beds of silt and clay, and is estimated to be approximately 300 feet thick at NAS Pensacola. Of the three zones in the Sand-and-Gravel Aquifer, this one is generally the most permeable and is the principal water supply for the Pensacola area (Wilkins et al., 1985). Groundwater in this zone generally is confined. It recharges primarily north of southern Escambia County and is supplemented by leakage in the northern parts of the county where it is present at the surface. Regional groundwater flows generally east toward Pensacola Bay and south toward the Gulf of Mexico. Three supply wells at NAS Pensacola produce water from this zone. However, the water has a high iron content, so the wells are used only to supplement to the base water supply, to irrigate the base golf course,

and for fire protection (G&M, 1984 and 1986). For potable water, NAS Pensacola depends on main producing zone wells at Corry Field, approximately three miles to the north.

Intermediate System

The Intermediate System, a regionally and vertically extensive, laterally persistent hydrologic unit, underlies the Surficial/Sand-and-Gravel Aquifer. The system comprises fine-grained clastic units of Miocene age (Pensacola Clay, Alum Bluff Group) that lie beneath coarse clastics of the overlying Sand-and-Gravel Aquifer. In the NAS Pensacola vicinity, depth to the top of the unit is approximately 300 feet, with a thickness of approximately 1,100 feet (Wilkins et al., 1985; SEGS, 1986). The system is regionally characterized by poor to non-water-bearing conditions. Permeabilities are much lower than those of the overlying Sand-and-Gravel Aquifer and the underlying Floridan Aquifer System, and consequently the system functions as a confining unit for the underlying Floridan Aquifer System (SEGS, 1986).

Floridan Aquifer System

The Floridan Aquifer System underlies the Intermediate System at an approximate depth of 1,400 feet in the NAS Pensacola area. The unit is predominantly limestone, but is separated into upper and lower units by a significant clay layer called the Bucatunna Clay (see Figure 3-1). Groundwater within the Floridan System is highly mineralized in the area of NAS Pensacola and is not used for water supply (Wagner et al., 1984). However, groundwater from the Upper Floridan Aquifer is used for water supply approximately 25 miles east of NAS Pensacola.

3.3 Ecological setting

3.3.1 Regional Ecological Setting

According to Wolfe et al. (1988), the Florida Panhandle has a wide variety of surface waters and physiographic regions, leading to an ecological diversity found in few other areas of the United States. Watersheds of the panhandle support a diverse array of habitats and vegetative

communities. Bottom land hardwoods predominate in river floodplains and pines, mixed with a variety of shrubs, prevail in upland areas. Wetlands are prevalent along the coastal fringe and river floodplains. Barrier islands support dune vegetation communities and salt marshes. Bays supporting seagrass meadows and oyster reefs are present in intertidal and subtidal areas.

Seven major rivers in the region discharge into seven bar-built estuaries formed at the mouths of the rivers. The Florida panhandle is a crossroads where animals and plants from the Gulf Coastal Plain reach their eastward distributional limits, and where many northern species reach their southern limits. Many peninsular Florida species are also distributed there. Due to the wet temperate climate of the region, the panhandle area may support the highest diversity of species of any other similat-size territory in the U.S.

The high annual rainfall and low, gently sloping terrain create numerous wetlands in the region. Bogs, swamps, marshes, wet prairies, and wet flatwoods provide a diversity of wetland types supporting a wide variety of flora and fauna. Terrestrial vegetation includes open pine woods and hardwood forests; most are second-growth forests of pines and encroaching hardwoods.

The Florida Panhandle's estuaries and nearshore marine habitats are some of the greatest natural and economic assets of the region. Important commercial organisms (such as oysters and fish) abound in these areas and contribute to the region's economy. Coastal saltmarsh habitats provide critical nursery, feeding, and refuge for these important commercial species. Seagrass beds within estuaries also are vital to the seafood industry.

3.3.2 Ecological Setting at NAS Pensacola

NAS Pensacola, which occupies approximately 5,800 acres, is bounded by Bayou Grande to the north and Pensacola Bay to the east and south. To the west, the installation transitions to less developed swampy lowlands. NAS Pensacola's eastern portion is largely developed, with military

and industrial facilities and historical/cultural sites. Most of the installation's activities are on the eastern side of the base. The less developed west side of the base has approximately 3,500 acres of natural or seminatural beach areas, forests, and wetlands.

NAS Pensacola is the Setting for numerous aquatic and terrestrial habitats, from coastal strand and estuarine environments along the bay and bayou to inland pine flatwood communities. Wetland environments include a broad spectrum of both estuarine and palustrine wetlands, as well as various disturbed habitats, many in states of recovery as they undergo reforestation or return to their natural condition.

Vegetation Communities

NAS Pensacola natural vegetation Communities fall into several broad categories: (1) coastal dune scrub communities, (2) pine flatwoods communities, (3) hardwood/pine communities, (4) sand pine scrub communities, (5) bay swamps, (6) freshwater marshes, and (7) estuarine coastal marshes (USFWS, 1987). Coastal dune scrub communities are associated with shorelines subject to high-energy waves. The vegetation consists of salt-tolerant plants able to establish themselves in shifting sands. Pine flatwood communities in coastal lowlands are characterized by trees that can tolerate various soil moisture conditions. Tree p i e s in flatwood communities are short, with a wide variety of small shrubs and herbaceous plants in the understory. Hardwood/pine communities are a highly diverse mixture of these varieties. Sand pine scrub communities on well-drained sandy soil contain sand pines, oaks, and various shrubs. Bay swamps are wetlands with titi and cypress swamps known to contain permanent standing water and high accumulations of organic peat. Freshwater marshes occur as grass/sedge/rush/herb communities in areas with high soil saturation or standing water. Estuarine coastal marshes, including salt marshes, occur along low-energy shorelines and in tidal bayous (USFWS, 1987).

Wildlife

NAS Pensacola habitats provide potential ranges for a wide variety of animal life such as deer, squirrel, opossum, raccoon, fox, beaver, and bobcat. The station's beaches serve as resting, feeding, and nesting areas for various shorebirds. Ospreys have been observed nesting along undeveloped shoreline areas of the Big Lagoon, southeast of the Forrest Sherman Airfield. Numerous small mammals, amphibians, and reptiles also inhabit the base. The coastal marsh, submerged grass bed, and shallow water habitats at NAS Pensacola help support fishery communities within the Pensacola Bay estuarine complex. Approximately 180 species of bony fishes form the basis of the Pensacola Bay fish community (USFWS, 1987).

Threatened and Endangered Species

Appendix A of the *Comprehensive Natural Resources Management Plan for NAS Pensacola and Outlying Field Bronson* (USFWS, 1987) lists the rare, threatened, and endangered species that may be found within NAS Pensacola boundaries. E/A&H investigations of different areas of NAS Pensacola have identified osprey, great blue heron (as well as other shorebirds), alligator snapping turtle, Godfrey's golden aster, Carolina lilaeopsis, white-top pitcher plant, and narrow-leaved sundew. All are considered rare or endangered for Escambia County, Florida, by the Florida Natural Areas Inventory (FNAI, 1995).

3.3.3 Site-Specific Setting

Site 16 is in an undeveloped part of NAS Pensacola, east of Forrest Sherman Field. The site is bordered on the north by Bayou Grande, on the east by a wooded area containing IRP Site 1, on the west by the main runways of Sherman Field, and on the south by the southeast drainage ditch/Tow Way Road. The center of the site is cleared of vegetation, except for low rising weeds and shrubs, serving as a departure and arrival path for the adjacent runways. To the north along Bayou Grande, and to the south along the southeast drainage ditch are small field successional communities of secondary woods dominated by medium sized pine and oak trees, and a weedy

understory consisting of various shrubs and vines. Overstory plant species include sand pine *(Pinus clausa)*, live oak *(Quercus virginiana)*, laurel oak *(Quercus hemisphaerica)*, chinaberry *(Melia azedarach)*, persimmon *(Diospyros virginiana)*, and popcorn tree *(Sapium sebiferum)*. The understory includes greenbrier *(Smilax bona-nox)*, muscadine grape *(Vitis rotundifolia)*, morning glory *(Ipomea sp)*, rattle box *(Sesbania drumondii)*, pokeweed *(Phytolacca americana)*, minty rosemary *(Conradina canescens)*, saw palmetto *(Serenoa repens)*, winged sumac *(Rhus copallina)*, and yaupon *(Ilex vomitoria)*, among odd weeds and grasses. The site supports a limited animal community, including birds, insects, and small mammals such as squirrels or other rodents. Shorebirds likely frequent the site area when the airfield is inactive. No rare or endangered species were noted onsite.

3.4 *Area* Climate

The Pensacola area has a mild, subtropical climate with average annual temperature ranging from 55°F in the winter to 81°F in the summer. Daily temperatures *can* be more extreme, ranging from less than 7°F in the winter to more than 102°F in the summer. Thunderstorms, which occur on approximately half the summer days, can cause a precipitous drop in temperature of 10" to 20° in a matter of minutes (E&E, 1992a).

November is the driest month of the year, with an average rainfall of 3.2 inches, based on climatological data from 1962 to 1991. Rainfall averages approximately 60 inches a year, with the highest amounts in July and August when thunderstorms occur almost daily. Thunderstorms resulting in 3 to 4 inches of rain in an hour are common. Rainfall is lowest during spring and fall (4 inches average per month). In general, spring and fall rains are less intense, last longer, and produce less surface runoff, but higher rates of infiltration and net recharge (E&E, 1992a).

Winds, which prevail from the north during the winter and the south during the summer, are generally moderate in velocity, except during thunderstorms. A difference in the ocean-land

temperature produces the sea-breeze effect, a daily clockwise rotation in the surface wind direction near the coast. Hurricanes and tornadoes can substantially damage the nearshore environment. Since 1980, eight hurricanes have passed within 50 miles of Pensacola, the most recent being Humcanes Erin and Opal in August and October 1995, respectively.

4.0 FIELD INVESTIGATION AND METHODS

The field investigation took place in March, April, and May 1996, in conjunction with preliminary work on other Category VII sites at NAS Pensacola. Work was performed in accordance with the work plan for Sites 4, 6, 7, 8, 16, and 22 (E&E, 1992ab), the Sampling and Analysis Plan (SAP) for Sites 4, 6, 7, 8, 16, and 22 (E/A&H, 1995a), the Final Comprehensive Sampling and Analysis Plan (CSAP) (E/A&H, 1995b), and the USEPA Region IV Standard Operating Procedures and Quality Assurance Manual (USEPA, 1991). Field methods followed guidelines set forth in these documents. Where warranted by field conditions, deviations from the approved procedures were carried out and appropriately documented. The field investigation was carried out to identify any potential soil or groundwater contaminants onsite, comparing identified constituents to previously established preliminary remediation goals (PRGs). The intent was to identify the soil and groundwater parameters above PRGs, and their sources.

All samples were analyzed for the full Target Analyte List/Target Compound List (TAL/TCL) in accordance with the Contract Laboratory Program (CLP), to include inorganics, pesticides/polychlorinated biphenyls (PCBs), and semivolatile/volatile organic compounds. Additional samples were collected for grain size analysis (GS). All chemical and physical parameters were analyzed by the S-Cubed Division of Maxwell Environmental Laboratories in San Diego, California.

4.1 Contaminant Source Survey

The site was surveyed preliminarily to determine the best possible placement of soil borings and monitoring wells, based on current and historical knowledge of the site and surrounding areas. Aerial photos were closely evaluated to detect changes in the area over time. Surface features (i.e., storm drains, etc.) were noted to identify potential pathways of contaminant migration. The current use of the area also was noted.

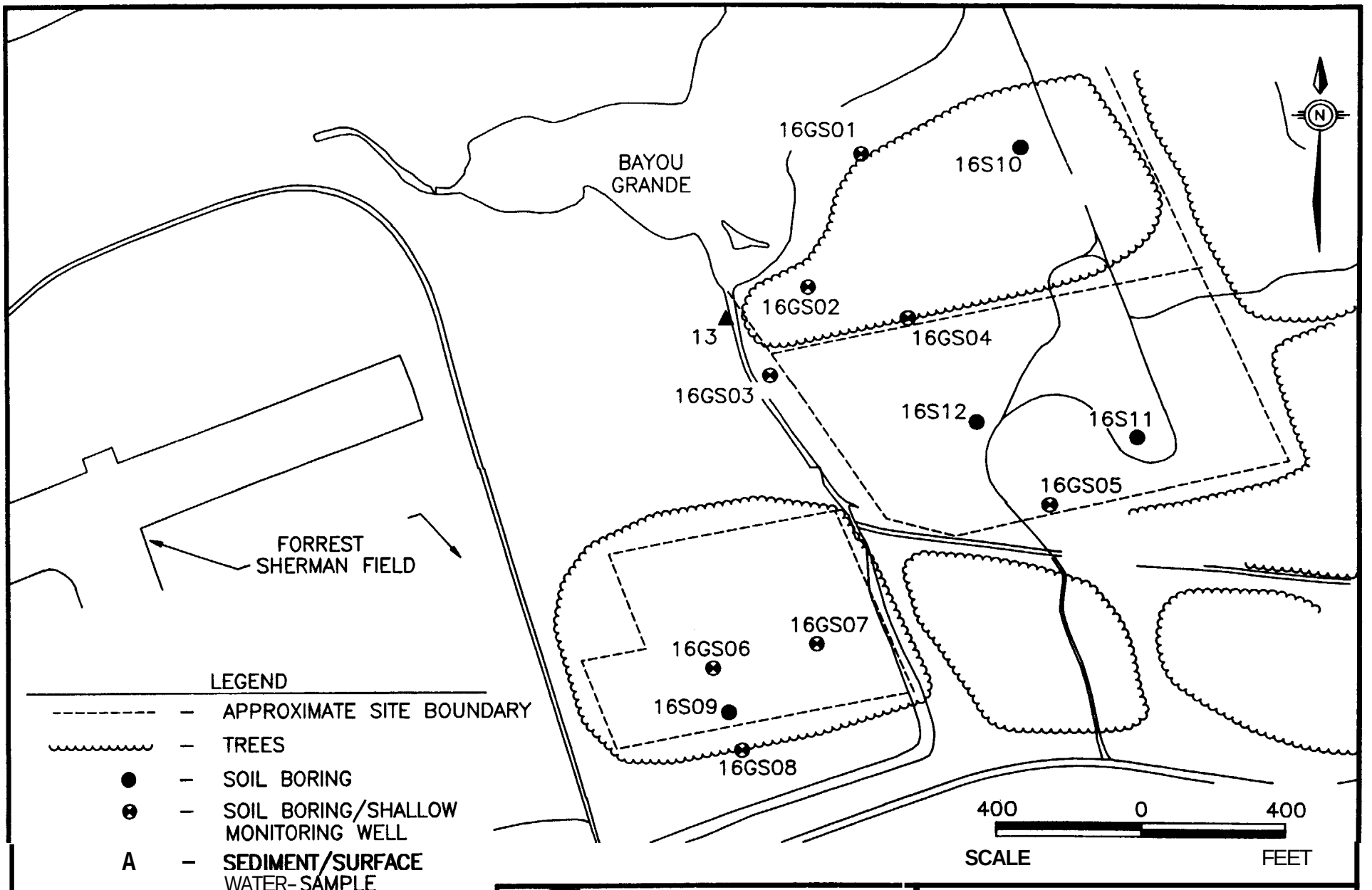
Aerial photographs analyses show that surface features on Site 16 changed dramatically between the 1960s and the present. Changes include clearing of certain portions of the site, earthmoving activities, and subsequent reforestation of portions of the site. No nearby sites or outfalls were noted which might be sources of site contamination.

4.2 Geophysical Survey

A geophysical survey was conducted as part of the Contaminant Source Survey. There were 5 well-defined anomalies identified from data collected *during* the survey, located mainly within the mid-1970s to mid-1980s disposal area. No well-defined anomalies were located in the pre-1970's disposal area. All the anomalies have been identified through a subsequent reconnaissance of the area as metal objects such as plate steel, scrap metal, reinforced concrete, metal door, or cable, and one anomaly which could be a boiler or buried tank. A *summary* of the geophysical methods used and results for Sites 4, 7, and 16 is presented in Appendix A.

4.3 Soil Boring and Sampling Methodology

Table 4-1 outlines the Site 16 soil samples and analytical parameters. Four soil borings were advanced in the pre-1970 disposal area, three soil borings were advanced in the mid-1970s to mid-1980s disposal area, and five soil borings were advanced in the disposal area currently being used, as specified in the *SAP*. The soil boring locations are shown n Figure 4-1. Nineteen soil samples were collected from the 12 borings. Boring logs are presented in Appendix B. Samples were collected in accordance with Section 4 of the *CSAP*. Sampling intervals included the *surface* interval (0 to 1' below land *surface* [bls]) and the lower 2 feet of each subsequent 5-foot interval until the water table was reached. Saturated soil was reached at roughly 5 feet bls, hence normally a single subsurface interval was sampled from each boring location.



PRELIMINARY SITE CHARACTERIZATION REPORT
SITE 16
NAS PENSACOIA

FIGURE 4–1
SITE 16 SOIL BORING AND MONITORING WELL LOCATIONS

DWG DATE: 06/11/97 | DWG NAME 970S16BW

Table 4-1
Site 16 Soil Samples and Analytical Parameters

Sample Location	Sample Identifier	Sample Interval	Date Sampled	Analyses
016S01	016S000101[a] 016S000104	0-1 ft 2-4 ft	4/10/96	TAL/TCL PPS
016S02	016S000201 016S000205	0-1 ft 3-5 ft	4/10/96	TAL/TCL
016S03	016S000301 016S000303	0-1 ft 3-5 ft	4/11/96	TAL/TCL PPS
016S04	016S000401[b] 016S000405	0-1 ft 3-5 ft	4/10/96	T M C L
016S05	016S000501 016S000505	0-1 ft 3-5 ft	4/10/96	TAL/TCL PPS
016S06	016S000601 016S000607	0-1 ft 5-7 ft	4/09/96	T M C L
016S07	016S000701 016S000706	0-1 ft 4-6 ft	4/09/96	TAL/TCL PPS
016S08	016S000801 016S000807 016S000812	0-1 ft 5-7 ft 10-12 ft	4/09/96	T M C L
016S09	016S000901 016S000907	0-1 ft 5-7 ft	4/09/96	TAL/TCL PPS
016S10	016S001001[a] 016S001004	0-1 ft 2-4 ft	4/10/96	T M C L
016S11	016S001101 016S001104	0-1 A 2 4	4/11/96	TAL/TCL
016S12	016S001201 016S001205	0-1 ft 3-5 ft	4/10/96	TAL/TCL

Notes:
a = Duplicate Sample
b = Matrix Spike/Matrix Spike Duplicate

4.4 Groundwater Monitoring

4.4.1 Monitoring Well Construction

Table 4-2 lists the construction details for the Site 16 monitoring wells. Eight permanent shallow monitoring wells (Figure 4-1) were constructed onsite in accordance with procedures outlined in Section 5.3 of the *CSAP*. These wells were constructed of flush-threaded, 2-inch polyvinyl chloride (PVC) well casing terminating with a 10-foot length of 0.1 factory-slotted well screen. Boreholes were advanced deep enough for the *screened* interval to intersect the water table. Wells were completed with an approximate 2-foot, locking, steel protective *casing.* Monitoring well construction logs are in Appendix B.

Table 4-2
Construction Details/Potentiometric Information
Site 16 **Monitoring Wells**

Well Location	Top of *Casing* Elevation[a]	Total Depth[b]	Screened Interval[b]	Depth to Water[b]	Groundwater Elevation[a]
16GS01	7.57	6.5	1.5-6.5	5.86	1.71
16GS02	11.10	8.0	3.0-8.0	9.17	1.93
16GS03	7.98	12.0	2.0-12.0	5.91	2.07
16GS04	15.97	16.0	6.0-16.0	8.50	7.47
16GS05	18.08	15.0	5.0-15.0	9.08	9.00
16GS06	16.83	16.0	6.0-16.0	11.47	5.36
16GS07	14.05	13.5	3.5-13.5	9.61	4.44
16GS08	17.30	19.5	9.5-19.5	14.70	2.60

Notes:
a = Top of *casing* and groundwater elevations in feet mean sea kvel.
b = Total depth, screen interval, and depth to water m feet below land surface.
The datum is mean sea level (North American Datum, 89).
Depths to water measured 5/8/96.

4.4.2 Monitoring Well Development

Wells were developed in accordance with Section 5.4 of the CSAP using a centrifugal pump until the water was clear of measurable turbidity and water quality parameters (pH, specific conductance, temperature, and turbidity) stabilized within 10% for three consecutive readings. Table 4-3 presents the water quality parameter measurements collected at the *end* of well development activities for each well.

Table 4-3
Final Water Quality Parameter Details
Site 16 Monitoring Well Development

Well Designation	Final Development Volume	pH	Specific Conductance	Temperature	Turbidity
16GS01	85	4.66	0.057	24.2	51
16GS02	50	5.07	0.064	23.7	12
16GS03	110	5.71	0.052	20.4	100
16GS04	110	5.07	0.090	21.7	85
16GS05	105	4.97	0.108	20.4	47
16GS06	290	4.54	0.038	20.9	123
16GS07	400	5.67	0.070	22.3	75
16GS08	275	6.05	0.075	22.2	251

Notes:
Well Development volume is in gallons.
pH measured in pH units.
Specific Conductance measured in micromhos.
Temperature measured in degrees Centigrade.
Turbidity measured in Nephelometric Turbidity Units (NTUs).

4.4.3 Groundwater Contamination Assessment Sampling

Table 4-4 outlines the Site 16 groundwater samples and analytical parameters. Eight groundwater wells are across Site 16, three in the pre-1970 disposal area, two in the mid-1970s to mid-1980s disposal area, and three in the currently used disposal area as specified in the *SAP*. The

"quiescent" vacuum/transfer groundwater sampling method was used as outlined in Section 6.3 of the *CSAP*. Eight groundwater samples were collected from these wells.

Table 4-4
Site 16 Groundwater Samples and Analytical Parameters

Sample Location	Sample Identifier	Date Sampled	Analyses
016GS01	016GGS0101	5/09/96	TAL/TCL
016GS02	016GGS0201	5/09/96	TAL/TCL
016GS03	016GGS0301	5/09/96	TAL/TCL
016GS04	016GGS0401	5/09/96	TAL/TCL
016GS05	016GGS0501	5/09/96	TAL/TCL
016GS06	016GGS0601	5/08/96	TAL/TCL
016GS07	016GGS0701	5/08/96	TAL/TCL
016GS08	016GGSS0801	5/08/96	TAL/TCL

4.5 Fieldwork and Sampling Protocols

4.5.1 Sample Handling and Management

Soil and groundwater samples were collected in accordance with the appropriate section of the CSAP. Clean plastic sheeting was placed at each sampling location to minimize the potential for sample contamination. Clean latex gloves were donned each time a new sample was collected. Decontaminated sampling devices were kept wrapped until the samples were collected. Samples were managed in accordance with Chapter 12 of the *CSAP*. Labeling, preservation, packing, chain-of-custody, and shipping carefully followed procedures in that section.

4.5.2 Quality Assurance/Quality Control Samples

Quality assurance/quality control (QA/QC) samples including blanks, matrix spike, and duplicate samples, were collected in accordance with Chapter 15 of the CSAP.

4.5.3 Sample Containers and Reservation

All laboratory-provided containers were precleaned and certified as specified in Chapter 12 of the CSAP.

4.5.4 Field Data

Auxiliary field data pertinent to the investigation were collected in accordance with Chapter 14 of the CSAP.

4.5.5 Decontamination

All exploration and sampling equipment used in the field investigation was decontaminated in accordance with Chapter 11 of the CSAP.

4.5.6 Investigation-Derived Wastes

Wastes derived from the field investigation were handled in accordance with Chapter 13 of the *CSAP* and the *Investigation-Derived Waste Plan for NAS Pensacola* (E/A&H, 1994a).

4.6 Site Area Land Survey

The site immunoassay screening points, soil borings, and monitoring wells were surveyed by E/A&H personnel using Global Positioning System (GPS) surveying equipment, per Section 3.4 of the *CSAP*.

4.7 Site Area Hydrologic Investigation

A hydrologic investigation was conducted in accordance! with Section 9.6 of the CSAP. Static water levels measured from each monitoring well were normalized to elevation data gathered during the GPS survey. These data were used to develop and analyze the piezometric surface across the site.

5.0 GEOLOGIC ASSESSMENT RESULTS

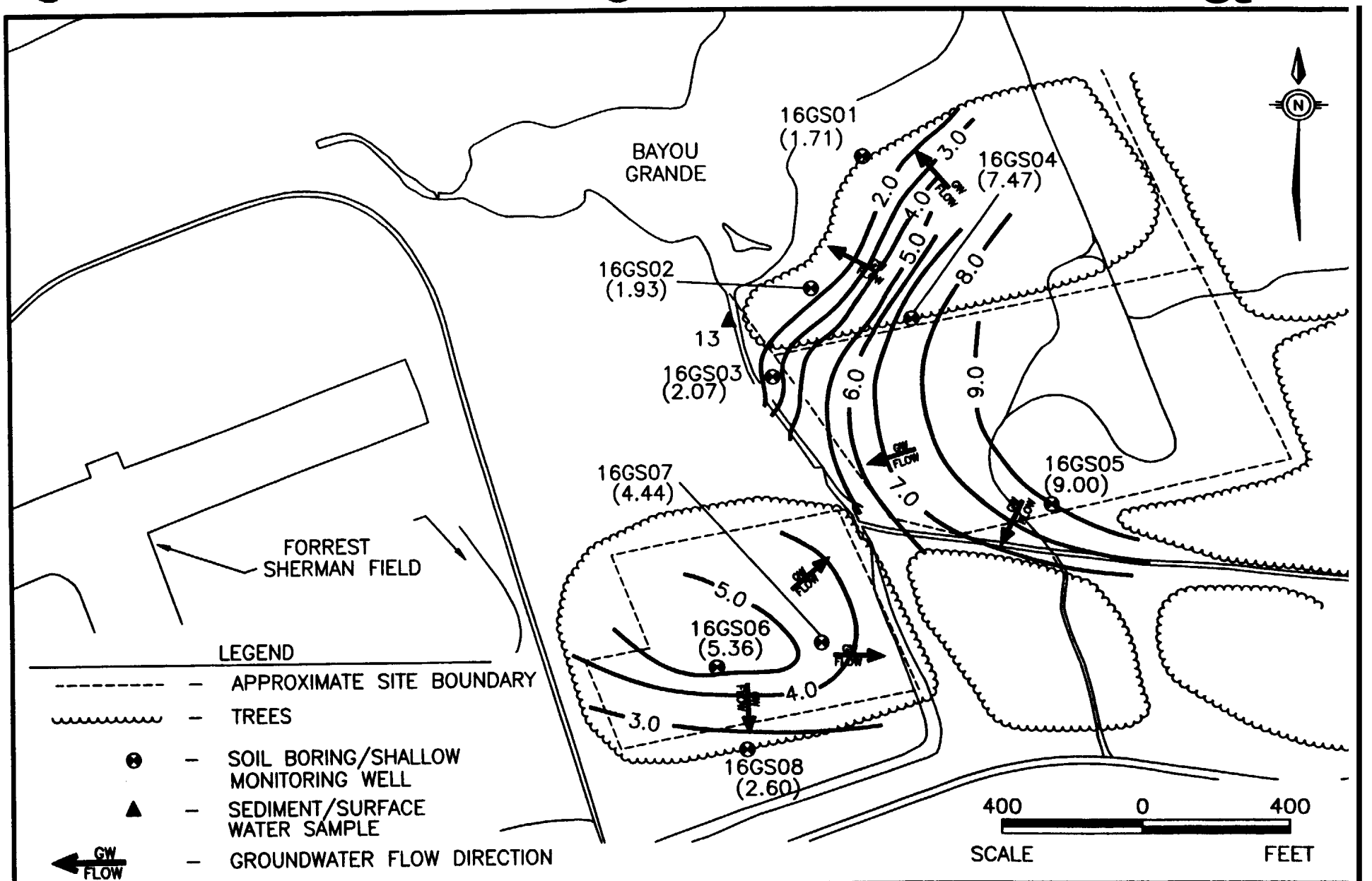
The subsurface stratigraphy across the Site 16 area is consistent with previous NAS Pensacola studies. All borings were limited to the uppermost portion of the surficial zone of the Sand-&-Gravel Aquifer (see *Appendix* B). The surface soil layer consists of about 2 feet of light brown, fine to coarse sand. Many borings encountered a dark gray to black, organic-rich silty sand layer from approximately 2 to 4 feet bls. Groundwater was commonly encountered at about 4 feet bls. From approximately 4 feet bls to the terminating depth is a natural buff to light tan, fine- to coarse-grained quartz sand. Lithologies from the four borings advanced beneath Site 16 were similar. Borings were commonly terminated at 4, 6, 8, or 12 feet bls while wells installed were terminated at 8, 12, 16, or 18 feet bls depending on the individual site conditions. No information on deeper stratigraphy was collected. In all, eight borings were converted to shallow groundwater monitoring wells.

Water Level Elevations and Piezometric Results

Figure 5-1 displays the shallow surficial piezometric surface for Site 16. Water levels were measured in the [eight] site monitoring wells to define the piezometric surface for the site. Groundwater elevations are listed in Section 4 of this report, along with other relevant monitoring well information. The groundwater elevation varies between 2 and 9 feet msl at Site 16.

Groundwater flow is characterized by two "nodes", or high areas, across the site; one is located in the northeast, and the other is in the southwest. Groundwater flow in the northeastern portion of the site is characterized by a radial pattern, with flow radiating to the northwest, west, and southwest. The highest gradient is to the northwest, and the lowest are to the west. Groundwater flow in the southwest portion of the site radiates to the northeast, east, southeast and south. The highest gradient is to the south, and the lowest is to the northeast. The mechanisms causing flow to directions other than towards the most obvious discharge zone (Bayou Grande) is unclear, but is inconsequential given the absence of contamination.

a



WATER LEVELS MEASURED 05/07–09/96

PRELIMINARY SITE CHARACTERIZATION REPORT
SITE 16
NAS PENSACOLA

FIGURE 5–1
SHALLOW SURFICIAL PIEZOMETRIC SURFACE

DWG DATE: 01/13/97 | DWG NAME: 970S16SS

Table 5-1 details the horizontal hydraulic gradient across the site. The horizontal hydraulic gradient appears to be fairly uniform to the west-northwest. Piezometric data from shallow monitoring wells at NAS Pensacola's Operable Unit (OU) 10 and Site 13 indicated the geometric mean for hydraulic conductivity in the upper surficial zone is 44 ft/day (E/A&H, 1995b). Given the proximity of these sites and the lithologic similarity, this information is extrapolative for use at Site 16. An effective porosity of 0.25 was estimated for unconsolidated sand from Heath (1989). These data were used to calculate groundwater flow velocities within the site area using the following equation:

$$V = K I / n_e$$

where: V = average horizontal velocity
K = hydraulic conductivity
I = hydraulic gradient
n_e = effective porosity

Table 5-1
Horizontal Hydraulic Gradient/Flow Velocity
Shallow Surficial Zone Groundwater
Site 16

Site Area	Direction	Gradient	Average Velocity
Northeast	NW	0.02	3.52
	West	[illegible]	[illegible]
	South	0.01	1.76
southwest	NE	0.004	0.70

6.0 NATURE AND EXTENT OF CONTAMINATION

The sampling approach, methods, and sample locations for this investigation were discussed in Sections 4.1 through 4.4 of this report. The analytical results were compared to the following general and site-specific *preliminary* Remediation *Goals* (PRGs).

soil

- Risk-based concentrations (RBCs) soil ingestion scenario for residential soil (surf" soil) and soil screening levels transfer scenario from soil to groundwater (subsurface soil) (USEPA, 1996a).

- Selected Cleanup Goals residential scenario (surface soil)/leaching scenario (subsurface soil) (FDEP, 1995 and 1996a).

- USEPA, Office of Solid Waste and Emergency Response (OSWER) draft revised *Interim Soil Lead* Guidance (USEPA, 1994a).

- USEPA, OSWER *Soil Screening Guidance* (USEPA, 1994b).

Groundwater

- USEPA Maximum Contaminant Levels and Secondary Maximum Contaminant Levels (SMCLs) (USEPA, 1996b).

- Florida Primary/Secondary Drinking Water Standards (FDEP, 1994b).

- Florida Groundwater Guidance Concentrations (FDEP, 1994b).

In addition to the soil PRGs, soil inorganics results were compared to NAS Pensacola-specific reference concentrations, developed by the Navy during the Site 1 investigation. These are equal to *two* times the detected mean for any given parameter at reference locations 01S67 and 01S69 (E/A&H, 1996a).

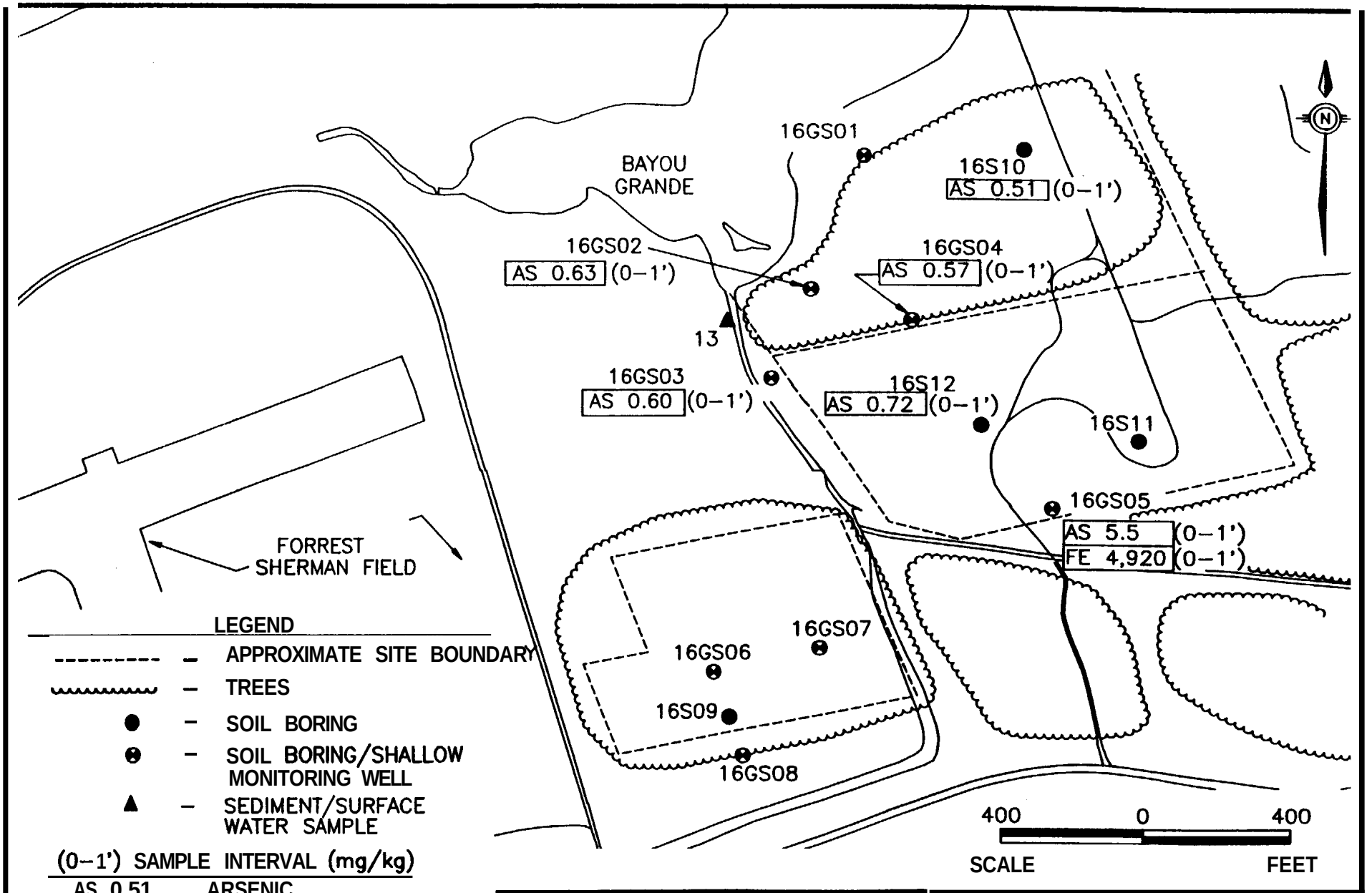
The soil and groundwater PRGs are listed in Appendix C. Sample values exceeding PRGs, including a reference concentration comparison where applicable, are tabulated in Appendix D. A tabulated summary of analytical data is in Appendix E. Grain size results are in Appendix F. Additionally, this section's maps illustrate the distribution of inorganic and organic soil and groundwater contamination within the ana of investigation. These figures display the highest concentration between samples where applicable. For the soil contamination assessment, surface *soil* is defined as the 0 to 1 foot bls, while subsurface *soil* is defined as the interval from 1 foot bls to the water table.

6.1 Soil Assessment

Figures 6-1 and 6-2 illustrate Site 16 inorganics detected above PRGs in soil samples. Several parameters were detected in Site 16 soil above their respective PRGs. Arsenic and iron were the metals exceeding PRGs in surface soils. Arsenic exceeded its PRG in six surface samples (16S02, 16S03, 16S04, 16S05, 16S10, and 16S12). Iron was detected above its PRG in one surface soil sample (16S05).

One organic parameter, benzo(a)pyrene, was detected at a concentration only slightly above its RBC of 88 micrograms per kilogram ($\mu g/kg$) in the surface soil sample collected from boring 16S05. It was not detected in the subsurface sample at this location.

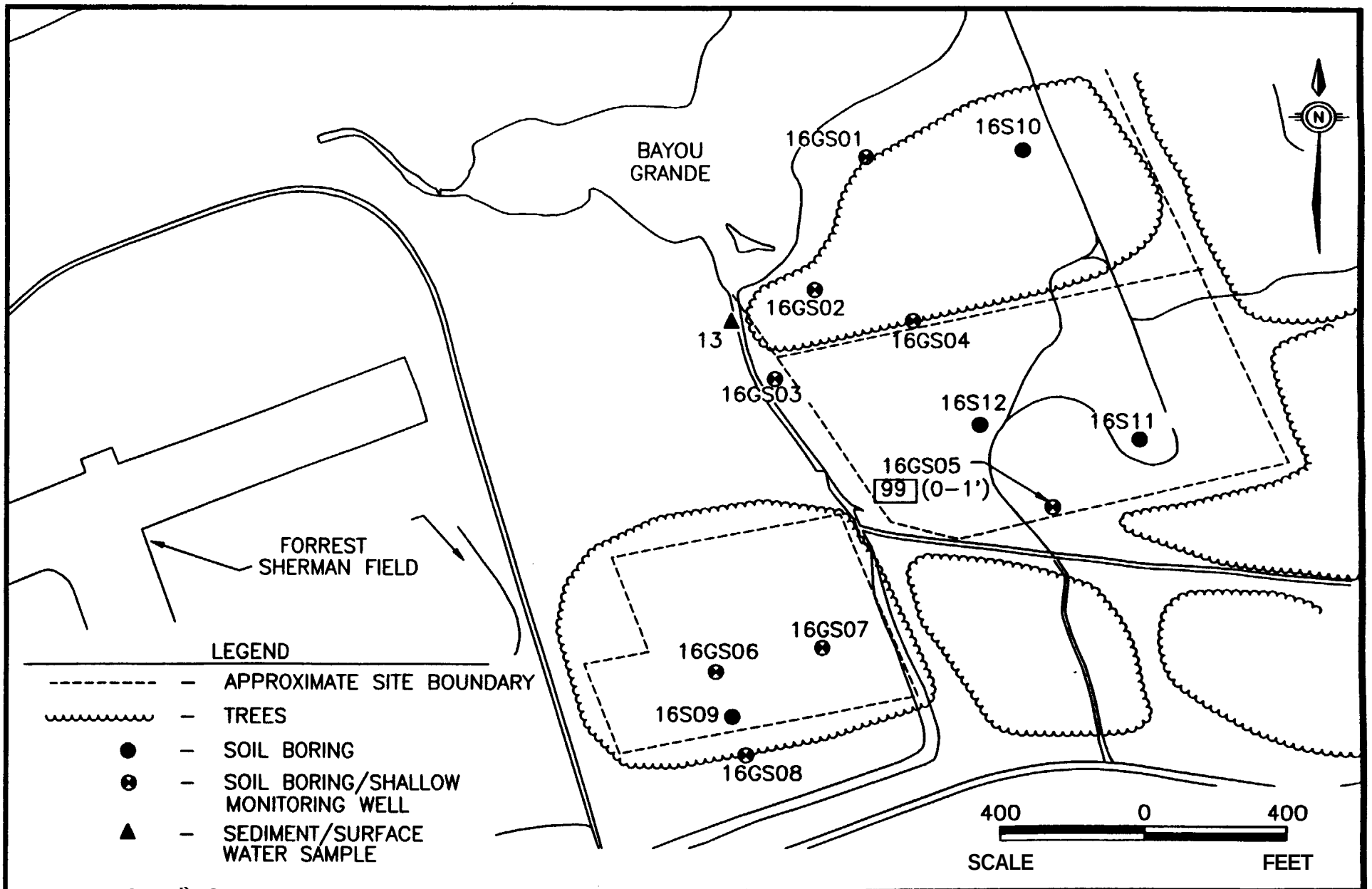
No subsurface soil exceedances were detected for any inorganic or *organic* parameters.



PRELIMINARY SITE CHARACTERIZATION REPORT
SITE 16
NAS PENSACOLA

FIGURE 6–1
INORGANICS DETECTED ABOVE PRELIMINARY REMEDIATION GOALS IN SOIL SAMPLES

DWG DATE: 01/09/97 | DWG NAME 970S16ID



(0-1') SAMPLE INTERVAL

16GS05 BENZO(A)PYRENE (ug/kg)

LOWEST PRC (ug/kg)

BENZO(A)PYRENE 88 (ug/kg)

PRELIMINARY SITE CHARACTERIZATION REPORT
SITE 16
NAS PENSACOLA

FIGURE 6-2
ORGANICS DETECTED ABOVE PRELIMINARY REMEDIATION GOALS IN SOIL SAMPLES

DWG DATE 10/08/96 | DWG NAME: 970S16OP

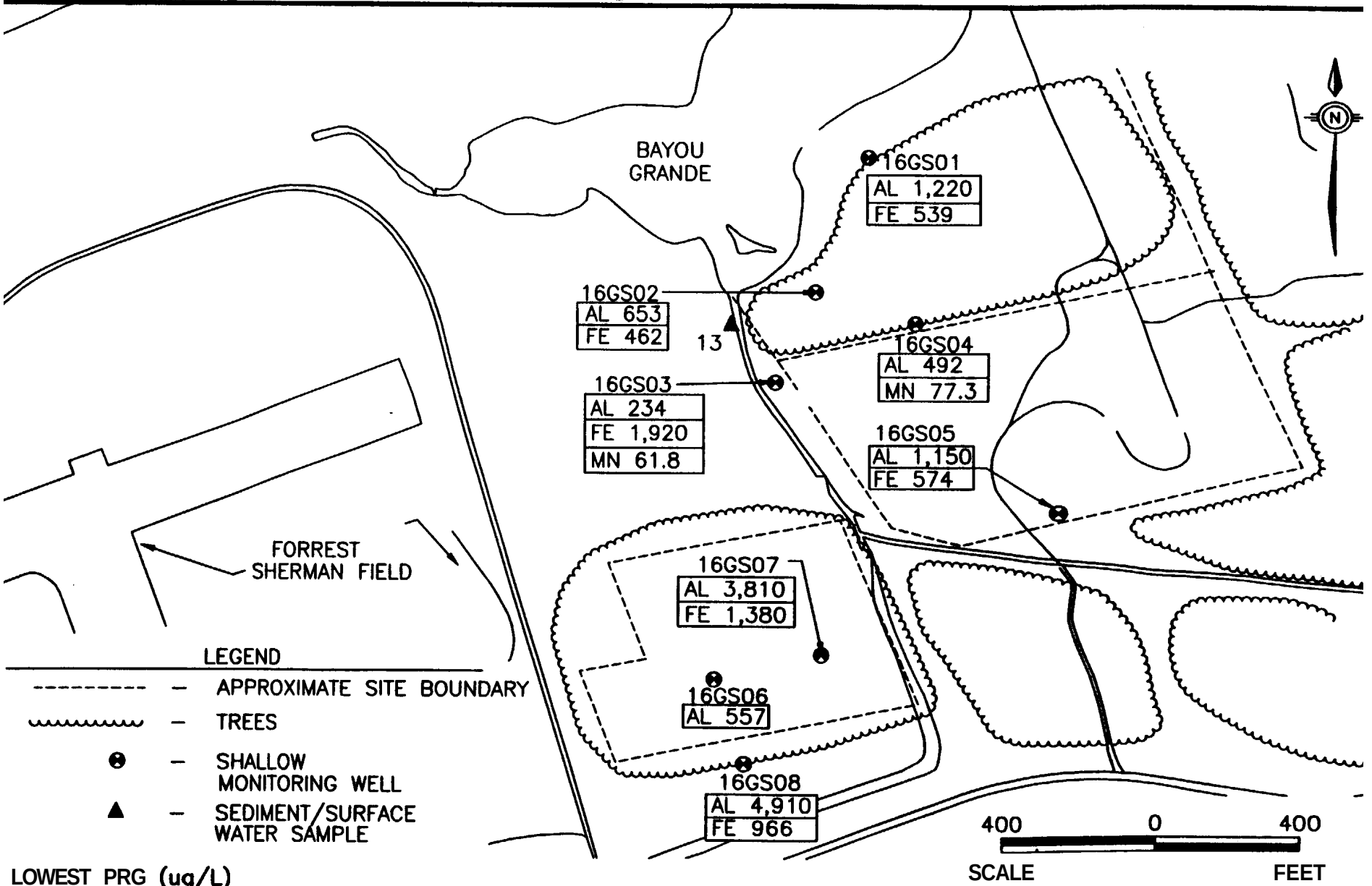
6.2 Groundwater Assessment

Figure 6-3 illustrates Site 16 inorganics detected above PRGs in groundwater samples. No organic parameters were detected in the samples. Several inorganic parameters were detected in Site 16 soil above their respective PRGs. Metals in shallow groundwater exceeding PRGs include aluminum, iron, and manganese. Aluminum above the SMCL was detected in groundwater samples from all eight well locations (16GS01 through 16GS08). Groundwater samples containing iron above the SMCL were identified at six of the eight wells onsite (16GS01, 16GS02, 16GS03, 16GS05, 16GS07, and 16GS08). Groundwater samples from two wells (16GS03 and 16GS04) contained manganese above its SMCL.

6.3 Summary and Conclusions

Arsenic was detected above the RBC in six surface soil samples collected in the Site 16 area. All sample concentrations were below the NAS Pensacola reference concentration of 1.56 milligrams per kilogram (mg/kg) except the sample collected from 16S05. Iron was detected above its RBC in one surface sample collected from boring 16S05 in Site 16 area. The iron concentration detected at 16S05 was also above the NAS Pensacola reference concentration of 2,745 mg/kg. No sites investigated by E/A&H exist are in the direct vicinity of Site 16 for comparison. However, arsenic and iron were above standards in surface soil at roughly comparable frequencies and concentrations at several sites investigated or under investigation by E/A&H on the eastern end of NAS Pensacola (Sites 1, 9, 10, 11, 12, 14, 15, 17, 18, 24, 25, 26, 27, 29, 30, 34, 36, 38, and OU 10) (E/A&H, 1994c, 1995bcde, 1996abc).

The polynuclear aromatic hydrocarbon (PAH) compound benzo(a)pyrene was the only organic parameter detected above its RBC in surface soil. A surface soil sample collected from a single boring location (16S05) was above the USEPA RBC of 88 μg/kg. This surface soil PAH concentration may have resulted from residual oils or fuel dripping from a parked bulldozer



LEGEND

- APPROXIMATE SITE BOUNDARY
- TREES
- SHALLOW MONITORING WELL
- SEDIMENT/SURFACE WATER SAMPLE

LOWEST PRG (ug/L)

AL 50 ALUMINUM (USEPA SMCL/FSDWS)
FE 300 IRON (USEPA SMCL/FSDWS)
MN 50 MANGANESE (USEPA SMCL/FSDWS)

PRELIMINARY SITE CHARACTERIZATION REPORT
SITE 16
NAS PENSACOIA

FIGURE 6-3
INORGANICS DETECTED ABOVE PRELIMINARY REMEDIATION GOALS IN GROUNDWATER SAMPLES

DWG DATE 10/08/96 | DWG NAME: 970IDAP1

used at the Brush Disposal Area, or from fuel spillage during refueling of the bulldozer. The PAH concentration and its distribution does not indicate significant contamination. The soil PAH contamination is considered delineated for the purposes of the PSC.

Aluminum exceeds its SMCL in all eight wells onsite. Iron exceeds the FSDWS in six of eight well locations while manganese exceeds the FSDWS at two of eight wells.

7.0 DATA VALIDATION

Data validation is the systematic and independent verification of data quality, and is performed independent of the laboratory. It requires defined acceptable criteria to provide assurance that the data are adequate for the intended use. The certification process consists of data screening, checking, verification, and flagging. Field and analytical data from the PSC of Site 16 were validated by Heartland Environmental Services, Inc., of St. Charles, Missouri to verify the QC requirements of the Site 16 data set and to characterize any questionable findings.

Twenty-seven soil samples were collected at Site 16 on April 9 through 11, 1996. Eight groundwater samples were collected at Site 16 on May 8 and 9, 1996. These totals do not include field QC samples. The investigative samples used to characterize the nature and extent of contamination were submitted to Maxwell Laboratories, S-Cubed Division and were reported using NEESA Data Quality Objectives (DQO) Level D (USEPA DQO Level IV). The analytical protocols were performed in accordance with the following guidance documents:

- NEESA Level D QA/QC guidelines as stated in: *Sampling and chemical Analysis Quality Assurance Requirements for the Navy Installation and Restoration Program* (NEESA 20.2-047B). 1988.

- Naval Facilities Engineering Service Center (NFESC) *Navy Installation Restoration Laboratory Quality Assurance Guide*, Interim Document, February 1996.

- USEPA, *Superfund Analytical Methods for Low Concentration Water for Organic Analysis*, October 1992 (CLP Organic Statement of Work [SOW]).

- USEPA, *Superfund Analytical Methods for Low Concentration Water for Inorganic Analysis*, October 1991 (CLP Organic SOW).

Data validation was performed in using the following documents:

- *USEPA CLP National Functional Guidelines for Organic Data Review,* February 1994 (EPA-540/R-94/012) (Organic Functional Guidelines).

- *USEPA CLP National Functional Guidelines for Inorganic Data Review,* February 1994 (EPA-540/R-94/013) (Inorganic Functional Guidelines).

Data validation qualifiers are listed at the end of this section.

7.1 Data Quality

The data received for Site 16 were validated based on data usability and contractual satisfaction with the appropriate data qualifiers as required. All samples were received by the laboratory in good condition and with the proper custody documents and seals intact. The organic and inorganic results for these samples were reported in three Sample Delivery Groups (SDGs): 5610, 5659, and 5671. Tables 7-1 through 7-4 summarize the QC parameters used for the data validation of each SDG. The analytical data were found to be acceptable for use in the PSC of Site 16 at NAS Pensacola.

7.2 Organic Analysis

7.2.1 Holding Times

All technical and contractual holding times were within QC requirements for the volatile and semivolatile fractions. Two reanalyzed pesticide/PCB samples (016GGS0501RE and 016R000101RE) were extracted outside of holding times. The original sample results were chosen for investigative purposes (see Section 7.2.9); therefore, the missed holding times do not affect interpretation.

Table 7-1
Site 16 Volatile SDG Summary

SDG	Holding Times	GC/MS Tunes	ICal	CCal	IS	Blanks	Surr	MS MSD	LCS	Overall
5610				X	X	X	X			OK
5659			X	X		X				OK
5671				X		X				

Table 7-2
Site 16 **Semivolatile SDG** *Summary*

SDG	Holding Times	GC/MS Tunes	ICal	CCal	IS	Blanks	Surr	MS MSD	LCS	Overall
5610				X						OK
5659				X						OK
5671										OK

Table 7-3
Site **16 Pesticide/PCB SDG Summary**

SDG	Holding Times	I.P.	ICal	CCal	CC	Blanks	Surr	MS MSD	LCS	Overall
5610			X				X			OK
5659	X		X							OK
5671	X		X				X			OK

Notes:
Ical = Initial Calibration
Ccal = Continuing Calibration
Surr = Surrogates
IS = Internal Standards
IP = Pesticide Instrument Performance
CC = Pesticide Cleanup Checks
MS/MSD = Matrix Spike/Matrix Spike Duplicate
LCS = Laboratory Control Sample
GC/MS = Gas Chromatograph/Mass Spectrometer
An "X" in a column means that one or more QC criteria were not met; one or more samples were qualified.
An "OK" in the Overall column means the data were acceptable with minor qualifications. No positive results were rejected; however, non-detections may have been rejected and flagged "UR."

Table 7-4
Site 16 Inorganic SDG Summary

SDG	Holding Times	Cal	Blanks	Serial Dil	ICP Check	LCS	MS	Lab Dup	Overall
5610			X	X			X	X	OK
5659			X						OK
5671			X	X			X	X	OK

Notes:
Cal = Calibrations
Serial Dil = Serial Dilutions
ICP Check= ICP Interference Check
LCS = Laboratory Control Sample
Lab Dup = Laboratory Duplicate
MS = Matrix Spike
ICP = Inductively Coupled Plasma
An "X" in a column means that one or more QC criteria wen not met .
An 'OK' in the Overall column means the data were acceptable with minor qualifications. No positive results wen rejected; however, non-detections may have been rejected and flagged "UR."

7.2.2 Calibrations

All QC criteria for volatile and semivolatile gas chromatograph/mass spectrometer (GC/MS) tuning were met in both SDGs. Several compounds were outside the calibration QC criteria in all fractions. These QC deficiencies represent common laboratory practices and occurred at a rate consistent with instruments that are calibrated correctly. All affected sample results were qualified for these calibration outliers per the Organic Functional Guidelines. In *the* volatile fraction, several calibration outliers grossly exceeded QC *Criteria.* Low response factors warranted rejection of undetected acetone and 2-butanone values in samples 016GGS0701, 016GGS0801, 016GGS0101, 016GGS0201, 016GGS0301, 016GGS0401, 016GGR0501, and 016GGS0601.

7.23 Blanks

Acetone and methylene chloride were detected in the blanks associated with the Site 16 investigation. These compounds are considered common laboratory artifacts and were qualified as recommended by the Organic Functional Guidelines. Action levels are based on the highest concentration of any laboratory artifact found in associated method blank(s) or QC sample(s). No positive sample result for a common laboratory *artifact* was reported unless that particular artifact's concentration exceeded the action level of 10 times the amount found in any blank(s).

In most cases following data validation, these common laboratory contaminants were deemed to be undetected in the investigative samples due to their presence in associated laboratory and field blanks. The presence of acetone in samples 016S000201, 016S000303, 016S000505, 016S000907, 016S001004, 016S001101, 016S001104 could not be directly related to blank contamination. Acetone concentrations ranged from 84 μg/kg to 450 μg/kg in these samples. This does not mean acetone in these samples should be considered a site constituent. The usability of the data must be based on historical evidence, as well as other data results for the site. Volatile constituents used in laboratory analysis and other processes are particularly common sources of potential cross-contamination. The solvents acetone, methylene chloride, and methyl ethyl ketone are used for extractions and cleaning in commercial laboratories, but are usually *separated* from the volatile analysis section. Although in theory these solvents are not spread from one part of the laboratory to the other, this is not always true in day-today laboratory operations and analyses. These volatile compounds *can* easily be transported via air ducts, clothing, glassware, *shoes*, paperwork, and writing instruments. Acetone found in the investigative samples may also be attributed to isopropanol alcohol (IPA) used for decontamination. IPA is used for manufacturing acetone and its derivatives.[1] Oxidation of IPA may yield acetone contamination.

[1] *Hawley's Condensed Chemical Dictionary*, Revised by Richard Lewis, Sr., 12th Edition, Van Nostrand Reinhold Co., New York, 1993, p660.

Based on potential field and laboratory sources, the presence of acetone in investigative samples may be questionable and should be used with extreme caution.

7.2.4 Matrix Spike/Matrix Spike Duplicates

In each analytical method used to analyze environmental samples, variations in the reported results may be due to the random differences in the handling and analysis of the matrix. These variations are referred to as the precision or the *reproducibility* of results. To demonstrate reproducibility, known quantities of several compounds are added to two separate aliquots of each sample matrix type. The "spiked" aliquots are referred to as the matrix spike (MS) and the matrix spike duplicate (MSD). These samples can then be analyzed by applying the same preparation techniques and analytical methods used for all the samples of similar matrix types. This enables the MS and MSD to be used to detect matrix effects caused by contaminants that interfere with the compounds of interest that may also be present. No specific requirements have been established for qualifying MS/MSD data. However, guidelines to aid in applying professional judgment are discussed in Organic Functional Guidelines. All MS/MSD criteria were met for the Site 16 samples.

7.2.5 Laboratory Control Samples

The CLP Low Concentration SOW requires that a laboratory control sample (LCS) be analyzed for organic parameters. LCSs are used to demonstrate that the laboratory process for sample preparation and analysis is in control. The LCS is similar to the MS/MSD except American Society for Testing and Materials (ASTM) Type II water is spiked with known amounts of specific analytes and is carried through the entire analytical procedure with the samples. All LCS criteria were met for SDGs analyzed during the Site 16 investigation.

7.2.6 Surrogates

Accuracy is the degree to which a *given* result agrees with the *true* value. To check the accuracy in a volatile, semivolatile, and pesticide analysis, the CLP organic SOW requires the addition of known amounts of *surrogate compounds*. If the surrogate percent recoveries are close to the known concentrations as defined within the limits set by the CLP, the reported target compound concentrations are assumed to be accurate. In the volatile fraction, samples 016S000101 and 016S000303 were reanalyzed due to high surrogate recoveries for bromofluorobenzene. Upon reanalysis, the *surrogate* recoveries did not improve, indicating *matrix* interference. The *original* sample analyses were reported because of preferable holding times, and the positive sample results were estimated per the Organic Functional Guidelines.

In the pesticide/PCB fraction, samples 016S00050, 016R000101, and 016W000101 had surrogate recoveries outside the QC Criteria. Results were qualified as estimated per the Organic Functional Guidelines.

7.2.7 Internal Standards

Internal standards (IS) are added to volatile and semivolatile samples and used to calculate the concentrations of target compounds. Two IS QC Criteria must be met when a sample is analyzed. The retention time of the IS must not vary more than 30 seconds and the IS area counts must not vary more than a factor of two (-50% to +100%) from the associated calibration *standard*. All volatile and semivolatile SDGs met the retention time QC criterion. Most samples exhibited low internal *standard* areas for the volatile fraction in SDG 5610. The samples that exhibited low internal standard areas were reanalyzed and the internal *standard* area did not improve, indicating matrix interference. The original sample analyses were reported, and appropriately qualified, because of preferable holding times. All positive and undetected results associated with the internal standards outside QC criteria were estimated per the Organic Functional Guidelines.

7.2.8 Field Duplicates

Representativeness expresses the degree to which sample data accurately and precisely represent the characteristic of a population, parameter variations at a sampling point, or an environmental condition. The duplicate samples assist in indicating overall field and laboratory precision. A greater variance should be expected for the soil sample duplicates compared to water sample duplicates due to the differences in matrix. The field duplicates associated with Site 16 indicated acceptable precision.

7.2.9 Compound Quantitation

Volatile samples 016S000801, 016S000401, 016S000601, 016S000807, 016S001201, 016C001001, 016S000301, 016S001001, 016S000201, and 016S000706 were reanalyzed due to noncompliant IS areas. Upon reanalysis, the IS areas did not improve, indicating matrix interference. The original sample analyses were reported, and appropriately qualified, because of preferable holding times.

In the volatile fraction, samples 016C000501, 016S000101, 016S000303, and 016S000907 were reanalyzed due to high surrogate recoveries and low IS areas. The surrogate recoveries and IS areas did not improve in the reanalysis, indicating matrix interference. The original sample analyses were reported, and appropriately qualified, because of preferable holding times.

Volatile results for samples 016S001101, 016S001004, and 016S000303 were diluted because one or more compounds exceeded the calibration range (flagged 'E' by the laboratory.) The values that exceeded the calibration range in the original samples were substituted by the diluted values. The "D" flag was left on the substituted values to alert the data user that the results were taken from a secondary dilution. The remaining values in the diluted sample should not be used for interpretation.

Sample 016GGS0501 was reextracted and reanalyzed for no apparent reason. The original result should be used for interpretation because the reanalyzed sample was analyzed outside of holding times. Sample 016R000101 exhibited low surrogate recoveries and was reanalyzed. The surrogate recoveries for the reanalyzed sample were also outside QC criteria. Therefore, the original sample analysis was reported, and appropriately qualified, because of preferable holding times.

Two columns and two separate detectors are used in pesticides analysis. Target analytes and surrogates are generally quantitated and reported on both columns; however, only the lower of the two concentrations is reported. The lower of the two concentrations is used because if present, co-eluting interferences are likely to increase the calculated concentration of any target compound. For detected analytes, the percent difference between the two columns are calculated. If the percent difference between the calculated concentrations is greater than 25 %, the laboratory flags the value with a "P" qualifier. This flag alerts the data user of the potential problems in quantitating the analyte.

During the validation process, the laboratory's "P" flags are dropped. The values are flagged "J" when the percent difference between the calculated concentrations is greater than 25%. The validation flag alerts the data user that the pesticide value is an estimated concentration.

7.3 Inorganic Analysis

7.3.1 Holding Times

All samples were received by the laboratory in good condition with the proper custody documents and seals intact. From the date of collection to the date of sample analysis, holding times were within method and contractual requirements.

7.3.2 Calibration

Initial and continuing calibration is conducted to ensure that the instrument is capable of acceptable and quantitative performance at the beginning and throughout each analytical run. Initial and continuing calibrations were performed for the analysis of inorganics within the criteria established by the USEPA CLP Inorganics SOW.

7.3.3 Blanks

Blank results are used to determine the presence and magnitude of any contamination problems. According to Inorganic Functional Guidelines, a sample result should not be considered positive unless the concentration of the compound in the sample exceeds five times the amount in any associated blank. As to be expected, contamination was identified in the blanks of both inorganic SDGs. Action levels were set for each affected element based on the highest concentration in any associated blank. Elements attributed to blank contamination were flagged undetected ("U".) No positive sample result was reported for an element detected in any blank unless that particular artifact's concentration exceeded the action level of five times the amount found in any blank per the CLP Inorganic SOW.

7.3.4 ICP Interference Check Sample Analyses

The inductively coupled plasma Interference Check Sample (ICP/ICS) analysis is performed to check the laboratory's instrument and the background correction factors. An ICS was analyzed for each SDG without any indication of interference.

7.3.5 ICP Serial Dilutions

ICP serial dilutions assess of matrix interference. One sample from each set of similar matrix type is diluted by a factor of five. For an analyte concentration that is at least 50 times above the instrument detection limit, the measured concentrations of the undiluted sample and the diluted sample should agree within 10%. Sodium and zinc in SDG 5610 and nickel in SDG 5671 were

outside QC criteria. All affected sample results for these elements that were outside the QC criteria in that SDG were qualified as recommended by the Inorganic Functional Guidelines.

7.3.6 Laboratory Control Sample

LCSs are used to monitor the overall performance or accuracy of all steps in the analysis, including the sample preparation. All LCS criteria were met for both SDGs.

7.3.7 Laboratory Duplicates/Spikes

Laboratory duplicate samples are used to determine the precision of analytical methods for each parameter. Laboratory spiked samples are designed to provide information about the effects of the sample matrix on the digestion and measurement methodology. In SDG 5610, the spike result for antimony, arsenic, chromium, and copper were outside the QC limit. In SDG 5671, the spike results for aluminum and selenium were outside control limits. In addition, the duplicate result for arsenic, calcium, iron, magnesium, and manganese were outside QC criteria in SDG 5671. All analytes were estimated that did not meet the laboratory duplicate and/or spike QC criteria as specified in CLP Inorganic SOW. The spike recovery for barium was zero (0%). All positive barium results were estimated and undetected barium results in SDG 5610 were rejected (flagged "UR") per the Inorganic Functional Guidelines.

7.3.8 Field Duplicates

Representativeness expresses the degree to which sample data accurately and precisely represent the characteristic of a population, parameter variations at a sampling point, or an environmental condition. The duplicate samples assist in indicating overall field and laboratory precision. A greater variance should be expected for the soil sample duplicates compared to water sample duplicates due to matrix differences. Samples 016S001001 and 016C001001 were field duplicates and the relative percent differences (RPDs) for calcium, iron, magnesium were outside the QC criteria. All positive calcium, iron, and magnesium results in SDG 5610 were estimated.

Samples 016W000101 and 016R000101 were field duplicates. Their RPD for aluminum was outside the QC criteria. Positive aluminum results in SDG 5671 were estimated.

7.4 Summary

7.4.1 Completeness

Completeness is defined as the percentage of measurements made which are judged to be valid. All of the samples analyzed for the investigation of Site 16 were determined to be valid with some qualification, except for the results flagged "UR." Of the 5,701 total measurements made (number of unique sample and parameter pairs), 20 were flagged "UR" (greater than 99 A completeness). Tberefore, the data met the 95% completeness goal.

7.4.2 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. Comparability is assured through the use of established methods of field sampling by experienced field personnel and laboratory analysis as specified by USEPA protocols. All samples for Site 16 were collected using the USEPA Region IV Standard Operating Procedures and analyzed according to CLP SOW protocols.

7.5 Conclusion

The overall data quality of the analytical work done for Site 16 at NAS Pensacola, except for the undetected sample results that were qualified as unusable, were considered to be satisfactory and usable for site remediation and risk assessment. The data validation summary reports submitted by Heartland Environmental Services, for Site 16 will be provided upon request or otherwise will become a part of the NAS Pensacola Site 16 *Final Report Reference File.*

Validation Qualifiers

U **Undetected** — The analyte was analyzed for but not detected or was also found in an associated blank, but at a concentration less than 10 times the blank concentration for common constituents or five times the blank concentration for other constituents; the associated value shown is the quantitation limit.

J Estimated Value — One or more QC parameters were outside control limits.

UJ **Undetected and Estimated** — The analyte was analyzed for but not detected above the listed estimated quantitation limit; the quantitation limit is estimated because one or more QC parameters was outside control limits.

D Diluted Result — The compound was reanalyzed at a secondary dilution factor. If one or more compounds are outside the calibration range during an initial analysis, the laboratory flags the analyte "E." When diluted, the sample results will be flagged "D." Generally, values from the initial analysis will be used except where the value exceeded the calibration range. Values exceeding the calibration range in the initial analysis will be substituted by the diluted value to ensure the most representative data. The "D" flag will remain on the value to alert the data user that a secondary dilution value was used.

R/UR Unusable Data — One or more QC parameters grossly exceeded control limits.

8.0 FATE AND TRANSPORT

8.1 Detected Constituents

Parameters identified in site soil include metals and a high molecular weight PAH compound. Arsenic and iron were the inorganics detected above PRGs in surface soil. The PAH compound benzo(a)pyrene was detected above its PRG. Parameters identified in site groundwater include three metals: aluminum, iron, and manganese.

8.2 Contaminant Migration

Leachii from Soil *to* Groundwater

Soil constituents may be leached to groundwater primarily by downward percolation of rainwater. Soil within the site area is very permeable, resulting in quick infiltration and minimal contact time between percolating water and soil above the water table. The absence of most analyzed parameters in groundwater indicates no significant partioning or leaching of soil constituents to groundwater is occuring.

Site groundwater parameters above PRGs include aluminum, iron, and manganese. No organic constituents were detected in site groundwater samples.

Surface Water Transport

precipitation *can* come into *contact* with soil across the site. The site has no impervious cover to limit the contact of precipitation with site soil.

Groundwater Transport

Groundwater flow at the site is characterized by two "nodes" or high areas *at* the site. One node is located in the northeastern portion of the site while the other node is located in the southwestern portion. In the northeastern portion of the site, groundwater flow is characterized by a radial pattern, with flow radiating to the northwest, west and southwest. The highest gradient is to the

northwest, calculated to be 3.52 ft/day. The lowest gradient is to the west, calculated to be 1.58 ft/day. Bayou Grande is approximately 313 feet north of the site. Assuming only advective transport for groundwater PRG exceedances, equal to the rate of groundwater flow, travel time for constituents to the bay would be approximately 3 months to the northwest and approximately 6.5 months to the west. This very conservative determination does not account for dispersion or retardation of parameters while enroute toward Bayou Grande.

In the southwestern portion of the site groundwater flow radiates to the northeast, east, southeast, and south. The highest gradient is to the south, calculated to be 1.76 ft/day while the lowest gradient is to the northeast, calculated to be 0.70 ft/day. Bayou Grande is approximately 313 feet north of the site. Again, assuming only advective transport for groundwater PRG exceedances, equal to the rate of groundwater flow, travel time for constituents to the bay would be approximately 6 months to the south and approximately 1.7 years to the northeast. As stated above, this very conservative determination does not account for dispersion or retardation of parameters while enroute toward Bayou Grande.

Current and Potential Receptors

The current and potential receptor for parameters associated with site groundwater is Bayou Grande. Potential effects to Bayou Grande will be further addressed in the investigation for Site 40 — Bayou Grande.

9.0 CONCLUSIONS AND RECOMMENDATIONS

No further action is recommended with respect to Site 16 due to the absence of extensive exceedances above regulatory standards in soil and groundwater samples collected onsite. A comparison of other constituents to applicable and relevant or appropriate requirements supports a conclusion of no further action for soils and groundwater based on the following analyses:

- The soil inorganic constituents above standards are similar in type, frequency of occurrence, and concentrations as those identified in all previously investigated sites on the eastern portion of the NAS Pensacola peninsula.

- The surface soil PAH concentration above standards likely originated from residual oils or fuel dripping from a parked bulldozer used in the operation of the Brush Disposal Area, or from fuel spillage during refueling of the bulldozer.

- Three metals — aluminum, iron, and manganese — exceeded their respective PRG concentrations in wells onsite. However, detected concentrations of aluminum and iron were below their respective NAS Pensacola reference concentrations, except at one location for each constituent. Both detected concentrations of manganese were slightly above the NAS Pensacola reference concentrations. Given that the shallow groundwater is not used, nor is it anticipated to be used, as a source of drinking water, no recommendation to address these secondary exceedances is made.

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11.0 FLORIDA PROFESSIONAL GEOLOGIST SEAL

I have read and approve of this Preliminary Site Characterization Report, NAS Pensacola Site 16 and seal it in accordance with Chapter 492 of the Florida Statutes. In sealing this document, I certify the geological information contained in it is true to the best of my knowledge and the geological methods and procedures included herein are consistent with currently accepted geological practices.

Name:	Brian E. Caldwell
License Number:	#1330
State:	Florida
Expiration Date:	July 31, 1997

B Caldwell

Brian E. Caldwell

6/12/97

Date

Appendix A

Geophysical Report for Sites 4, 7, and 16 for NAS Pensacola

GEOPHYSICAL REPORT FOR SITES 4, 7, and 16 NAVAL AIR STATION PENSACOLA, FLORIDA

SOUTHNAVFACENGCOM
CONTRACT NUMBER:
N62467-89-D-0318
CTO - 970

Prepared for:

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN)
NAVAL AIR STATION
PENSACOLA, FLORIDA

Prepared by:

EnSafe/Allen & Hoshall
5720 Summer Trees Drive, Suite 8
Memphis, Tennessee 38134
(901) 383-9115

January 17, 1997

Release of this document requires prior notification of the Commanding Officer of the Naval Air Station, Pensacola, Florida.

Table of Contents

EXECUTIVE SUMMARY iii

1.0 INTRODUCTION A-1

2.0 FIELD IMPLEMENTATION A-1

3.0 GEOPHYSICAL APPLICATION A-1

4.0 QUALITY ASSURANCE PROCEDURES A-3
- 4.1 Data Precision A-3
- 4.2 Data Biasing Effects A-4

5.0 DATA INTERPRETATION A-7
- 5.1 Site7 . . . . . A-8
  - 5.1.1 Setting and Regional Geology A-8
  - 5.1.2 Field Procedures A-8
  - 5.1.3 Data Interpretation A-9
  - 5.1.4 Anomaly Description A-9
- 5.2 Site4 . . . . . A-13
  - 5.2.1 Setting and Regional Geology A-13
  - 5.2.2 Field Procedures A-14
  - 5.2.3 Data Interpretation A-14
  - 5.2.4 Anomaly Description A-14
- 5.3 Site 16 . . . . . A-18
  - 5.3.1 Setting and Regional Geology A-18
  - 5.3.2 Field Procedures A-19
  - 5.3.3 Data Interpretation A-19
  - 5.3.4 Anomaly Description A-23

6.0 CONCLUSIONS A-27

List of Figures

Figure 1 EM-31 Drift Curve. Sites 4 and 7 . . . . . A-5
Figure 2 EM-31 Drift Curve. Site 16 . . . . . A-6
Figure 3 Conductivity —Site 7 . . . . . A-10
Figure 4 In-Phase —Site 7 . . . . . A-11
Figure 5 Geophysical Anomaly Map —Site 7 . . . . . A-12
Figure 6 Conductivity —Site 4 . . . . . A-15
Figure 7 In-Phase —Site 4 . . . . . A-16
Figure 8 Geophysical Anomaly Map —Site 4 . . . . . A-17

Figure 9 Conductivity Map Site 16 . . . . . A-20
Figure 10 In-Phase Anomaly Map Site 16 . . . . . A-21
Figure 11 Conductivity Site 16 SW A-22
Figure 12 In-Phase Site 16 SW A-22
Figure 13 Geophysical Anomaly Map Site 16 . . . . . A-24
Figure 14 Geophysical Anomaly Map Site 16 SW A-25

List of Tables

Data Precision Tests A-3
Table 1 Anomaly Interpretations. Site 7 Fire Fighting Training Area A-13
Table 2 Anomaly Interpretations. Site 4 . . . . . A-18
Table 3 Anomaly Interpretations. Site 16 Active Landfill Section A-26
Table 4 Anomaly Interpretations. Site 16 Southwestern Section A-26

EXECUTIVE SUMMARY

In support of environmental investigations at Naval Air Station (NAS) Pensacola, EnSafe/Allen & Hoshall of Memphis, Tennessee, conducted geophysical surveys at Sites 4, 7, and 16 to characterize the extent of buried material and map features of possible environmental concern.

The anomalies were identified according to the likelihood for king of environmental concern: Type A anomalies are well-defined features needing further investigation, Type B are weaker anomalies, Type C are anomalies not related to buried features.

Two strong Type A anomalies were identified at Site 7 along the southwestern margin of the survey area. These large responses may be related to past bum activities reported onsite. Three lesser Type B anomalies were also identified onsite, one near Building 1713 and two adjacent the southwestern site boundary. The rest of the surveyed area was anomaly-free.

Geophysics data for Site 4 identified three less-significant Type B anomalies. Most site anomalies were directly linked to surface or subsurface culture. Follow-up investigations for the Type B anomalies are not recommended.

Five significant Type A anomalies were identified in the active landfill at Site 16. In addition to the Type A responses, numerous Type B anomalies were scattered across the landfill. The investigation in the southwestern section of Site 16 identified no significant anomalous activity. One linear feature in the conductivity data set was classified Type B. No further investigation is recommended.

Follow-up investigations may be needed at Type A sites to ascertain whether the anomalies are due to innocuous, minor buried rubble or are of genuine environmental concern. The geophysics data indicate specific locations at which to conduct follow-up investigations.

1.0 INTRODUCTION

EnSafe/Allen&Hoshall (E/A&H) recently performed geophysical surveys at NAS Pensacola to characterized subsurface conditions within Sites 4, 7, and 16. Survey results will be used to evaluate site environmental conditions, and identify potential areas for subsequent invasive environmental investigations

The investigations used the frequency domain electromagnetics (FDEM) technique to detect buried metals and disturbed soil. FDEM provides rapid and highdensity data coverage of conductive features within approximately 6 meters of the surface.

2.0 FIELD IMPLEMENTATION

To ensure accurate and reliable data collection, and reproduction of anomaly source locations, an orthogonal reference grid was used over the investigation area. Grid baselines were marked first using a compass and then back-sighting from a fixed position on the grid. The fixed position for the grid was referenced as 1000N/1000E. Wood stakes were placed every 10 feet along key east-west grid lines. Data were collected along north-south lines by careful pacing, using the wood stakes to maintain the correct east-west alignment. Conductivity and in-phase data were obtained using a vertical dipole configuration at an elevation of 1 meter above ground surface, using the shoulder sling supplied with the instrument.

3.0 GEOPHYSICAL APPLICATION

Description of FDEM

Frequency domain electromagnetics (FDEM) is a geophysical *technique* useful for mapping buried drums, tanks, utility lines, old trenches, construction rubble, extent of landfills, etc. Typically the instrument is an EM-31, manufactured by Geonics, Ltd. The EM-31 consists of a 2-meter long boom with a transmitting antenna at one end and a receiving antenna at the other. The transmitting antenna is energized by a current pulse, which propagates into the ground as an

electromagnetic field. As it encounters electrically responsive materials in the ground, the signal received at the surface in the receiving antenna is distorted. These distortions can then be interpreted to develop a graphical image of the subsurface.

The signal can penetrate to 6 meters below ground surface. FDEM is primarily a profiling method that does not yield detailed vertical resolution, although it can perform some limited sounding capability by varying the instrument height and dipole orientation. Resolution in plan view is often within a meter or so. Signals are sensed by the instrument's electronics and the data are sent to a field data recorder, whose contents are downloaded to a second computer for processing and plotting.

Two parameters are measured: conductivity and in-phase. Conductivity measures how well the earth conducts electrical current. Dry materials yield low conductivities, while wet materials yield high conductivities. Saturated clays are particularly conductive. Buried metals may also increase the effective conductivity. Conductivity data have units of milliSiemens per meter (mS/m).

The in-phase component is a ratio of the secondary-to-primary field strengths (the primary field is the generated signal and the secondary is the ground's response). The in-phase component is primarily sensitive to metals, not soil moisture, and can be negative or positive over metallic objects, depending on the relative geometries of the conductor and instrument. In-phase has units of parts per thousand (ppt) of the secondary field strength.

FDEM was used on this project to detect disturbed soil and buried metals related to excavation and to identify any potential underground storage tanks onsite.

4.0 QUALITY ASSURANCE PROCEDURES

Equipment was calibrated according to the manufacturer's instructions each morning prior to data acquisition.

Two items of chief concern in any data set are precision and biasing; both *can* influence the interpretability of a data set. A standard set of tests was used to investigate both types of effects.

4.1 Data Precision

A base station is nonnally established in a background area to determine short- and long-term measurement precision. Periodically during data acquisition, the instrument is returned to the base station and 10 to 20 successive readings are measured. The base station for Site 4, 7, and 16 were position at 1000N/1000E, 1000N/1120E, and 1000N/1000E, respectively.

Short-term precision shows how closely a measurement can be repeated in a short range of time, and thus is a function of inherent instrument noise. Short-term precision is estimated by statistically analyzing the base station burst measurements. The results are as follows:

Data Precision Tests

Test	Conductivity (mS/m)	In-Phase (ppt)
Instrument Precision Error		
Base Station Site 4	f0.06167	f0.01403
Base Station Site 7	±0.06056	±0.00616
Base Station Site 16	±0.06377	±0.01552
Benchmarks		
Desired Minimum Resolution	fl.0	fl.O
Typical Drum Response	±5	±5

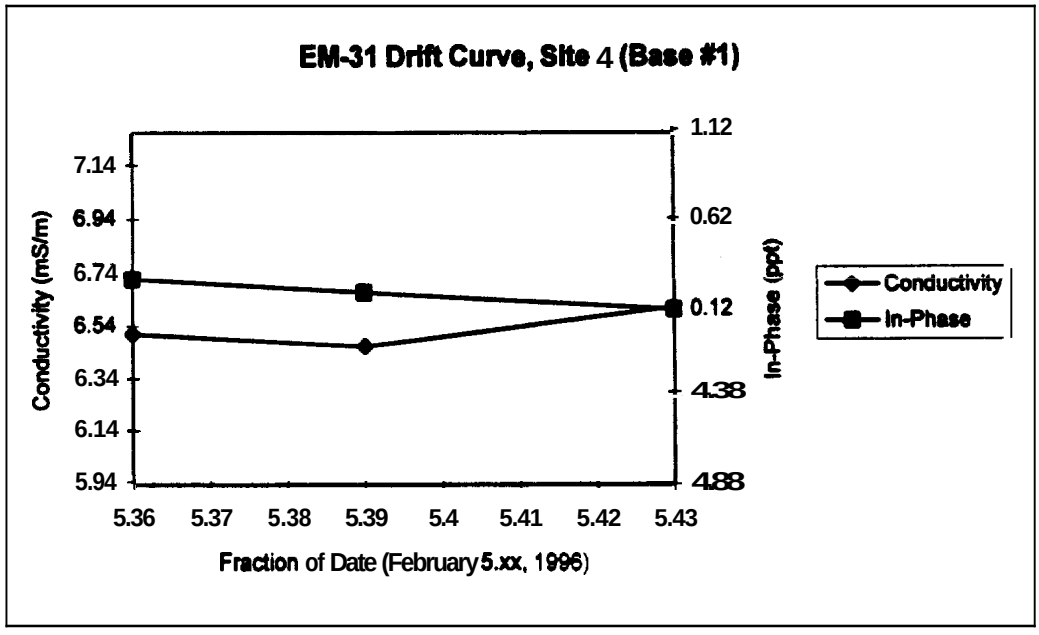
The precision is acceptable, judged by benchmarks set by the survey objectives, and hence does not influence the interpretability of the data set. The precision level is better than average for EM-31 surveys.

Long-term precision is primarily controlled by instrument drift, due to slight response changes in the its electronics. Figures 1 and 2 show the instrument drift recorded for Base Station 1 at each site. The minimum and maximum vertical scales are adjusted to represent 10% of the conductivity value and 1 ppt of in-phase, considered to be "high drift" bounds which, when exceeded, suggest that drift corrections may need to be considered. The drift is smaller than usual for EM-31 measurements and does not exceed the desired minimum resolution benchmarks for Sites 4 and 7. No correction is required for the magnitude of drift observed at these sites. Slightly greater variability occurs within the base station readings for Site 16. The primary cause is the extended number of days the survey required. A drift correction should be applied to the raw data set from Site 16.

4.2 Data Biasing Effects

Spatial aliasing is an undersampling effect that occurs when searching for small, subtle targets, such as deeply buried single drums. The key to a successful survey is to optimize the grid spacing or data density to the smallest target being investigated. In this case, a single drum is the smallest object sought. Experience has shown that a 10 foot by 10 foot grid is a good compromise between effectiveness of detection and survey speed for drum-size objects. Most objects of this size within the penetration range of the instrument will be detected in a 10 foot by 10 foot data grid.

Instrument response time/nonreciprocity effects can occur on large-scale surveys, when the instrument is advanced quickly/rapidly along lines and reverses direction on each line. This procedure produces a wavy pattern at the edges of high-amplitude anomalies due to a finite instrument response time and due to nonreciprocity when the receiver and transmitter antennas reverse positions. Effects of this nature do not compromise data quality or interpretability.


EM-31 Drift Curve, Site 4 (Base #1)
Conductivity (mS/m)
7.14
6.94
6.74
6.54
6.34
6.14
5.94
1.12
0.62
0.12
4.38
4.88
In-Phase (ppt)
5.36
5.37
5.38
5.39
5.4
5.41
5.42
5.43
Fraction of Date (February 5.xx, 1996)
Conductivity
In-Phase

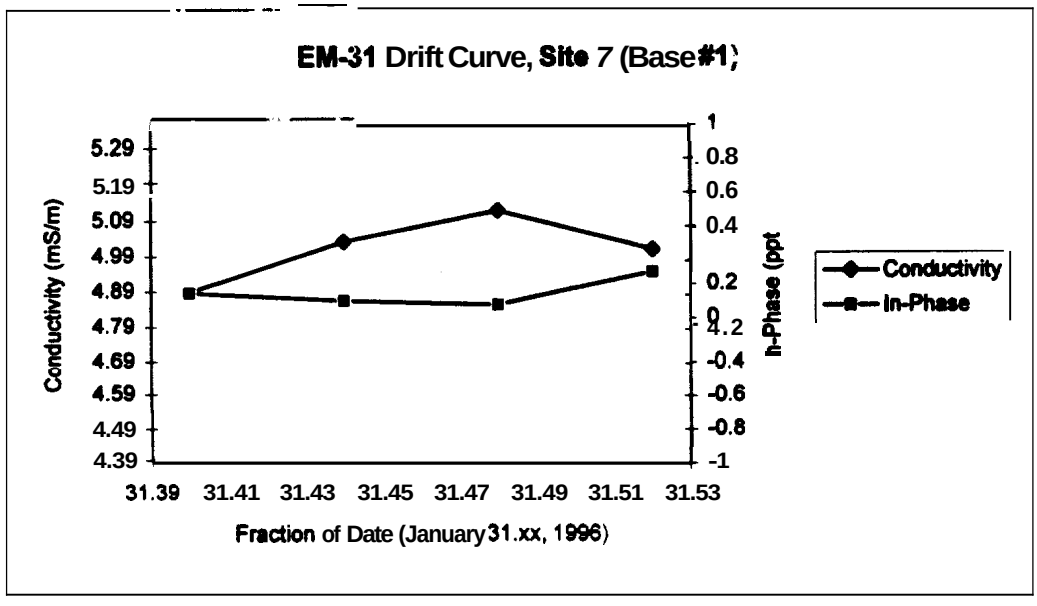
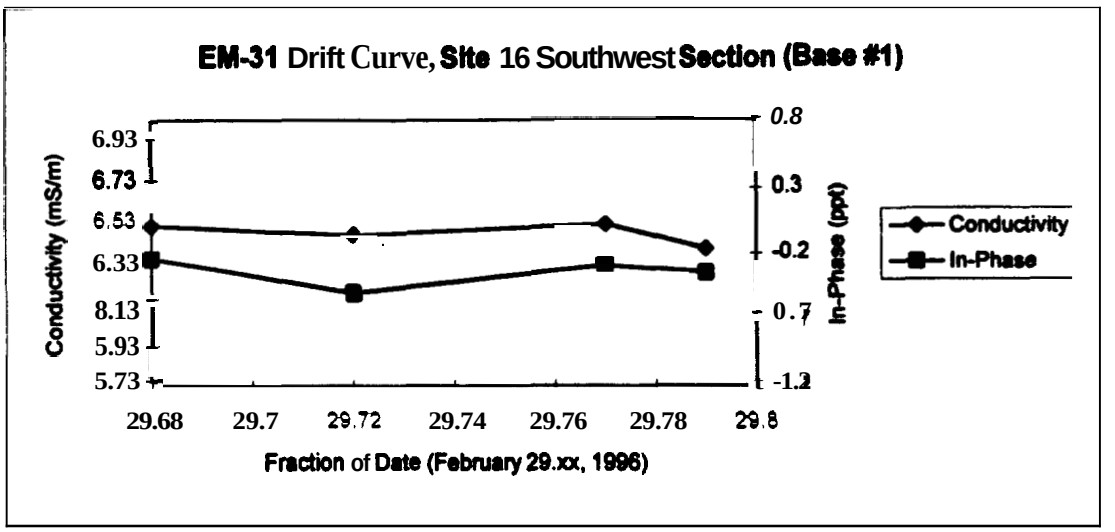

EM-31 Drift Curve, Site 7 (Base #1)
Conductivity (mS/m)
5.29
5.19
5.09
4.99
4.89
4.79
4.69
4.59
4.49
4.39
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
In-Phase (ppt
31.39
31.41
31.43
31.45
31.47
31.49
31.51
31.53
Fraction of Date (January 31.xx, 1996)
Conductivity
In-Phase

Figure 1


EM-31 Drift Curve, Site 16 Southwest Section (Base #1)
Conductivity (mS/m)
6.93
6.73
6.53
6.33
8.13
5.93
5.73
0.8
0.3
-0.2
0.7
-1.2
In-Phase (ppt)
Conductivity
In-Phase
29.68
29.7
29.72
29.74
29.76
29.78
29.8
Fraction of Date (February 29.xx, 1996)

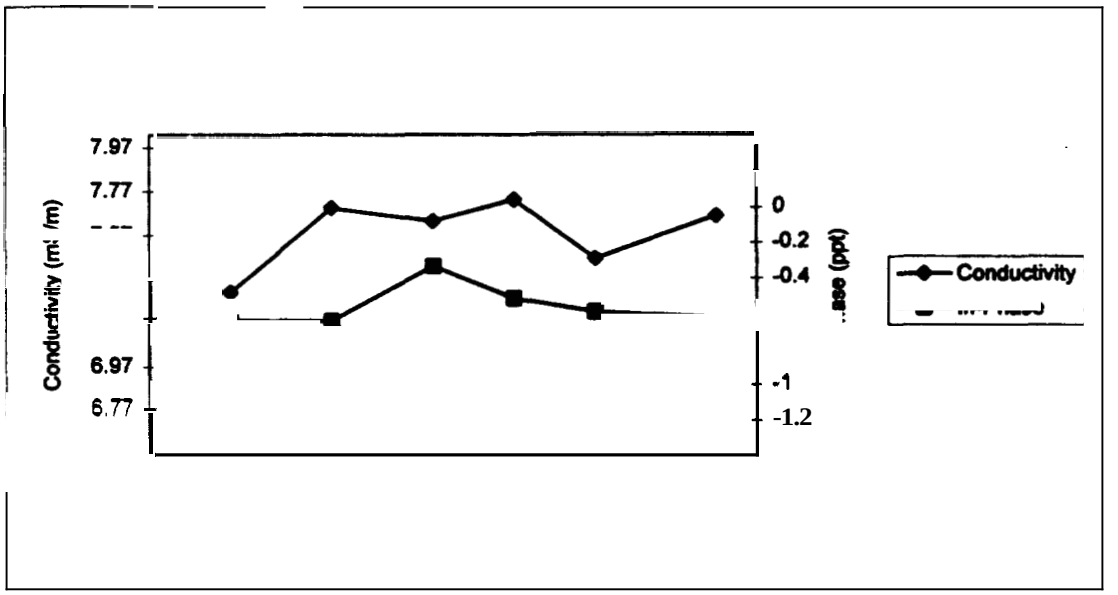

7.97
7.77
6.97
6.77
0
-0.2
-0.4
-1
-1.2
Conductivity

Figure 2

5.0 DATA INTERPRETATION

Each investigation created plan-view maps taken from conductivity and in-phase data sets. Site features are superimposed to aid the interpretation.

The conductivity maps identify subtle soil moisture changes across the site. The data are depicted in color according to the color bar on the right side of each map. Both large and small conductivity values (compared to background) may be significant, although they do not necessarily indicate separate features but may be edge effects from a single feature. Extremely large and small values, sometimes with distinct linear appearance, are often associated with fences and underground utilities. Other anomalies not related to culture are observed, ranging from broad changes over several hundred feet to very small, isolated ones.

In-phase data maps usually indicate metal. The nominal response in a metal-free area should be nearly zero. Large positive and negative values generally indicate metal features associated with buried objects, or aboveground culture such as fences, road signs, buildings, etc. As with conductivity data, in-phase data clearly indicate buried utilities, and also show numerous small, scattered anomalies.

The anomalies identified onsite are classified according to their interpretational significance with respect to the individual project objectives:

Type A: Strong, well-defined anomaly characteristic of a buried object, for which some follow-up (site walkover, soil boring, trench, etc.) is recommended.

Type B: Weaker or more poorly defined anomaly due to a buried object, but less likely to be of environmental concern. Follow-up is deemed less critical, but depends on Type A anomaly investigation results.

Type C: Anomaly not believed to be caused by buried material of environmental concern. Examples are ditches, culture, metal objects at the surface, etc. Follow-up is not recommended.

Type D: Anomaly-free in light of the stated objectives.

Tables for these three sites describe the anomalies and recommendations for follow-up. If a follow-up investigation conducted, the best locations for doing so are indicated for Type A anomalies in the second column of the tables. Note that follow-up will first be a site walkover to determine if the anomaly is due to some nonenvironmental object, such as buried construction debris or topography. Most of these explanations were eliminated during the geophysics survey, but a second site walkover is still recommended. Invasive work may be planned based upon the site walkover.

5.1 Site 7

5.1.1 Setting and Regional Geology

Site 7 is on the southern side of NAS Pensacola, adjacent to Building 1713, and approximately 400 feet southeast of Fort Redoubt. The site was previously a fire-fighting training area using several surface structures and bum pits. Surface topography is generally flat, sandy terrain with several scattered minor depressions. Surface vegetation ranges from primarily wooded to grass and weeds. An unmaintained asphalt road to Redoubt Road bisects the site generally north to south. A mobile home park is southeast and adjacent to the site. Local military personnel indicated the southeastern section of the site was the most likely area for bum and burial activity while serving as a training area.

5.1.2 Field Procedures

A 10-foot grid interval for Site 7 was used as a compromise for sampling potentially large footprint sources (i.e., burn pits), along with smaller sources such as drums. Key east-west cross

lines staked every 100 feet were marked with high-visibility paint. Data were obtained walking north on even-numbered lines and south on odd-numbered lines. The receiver antenna was pointed north on even lines and south on odd lines. Fieldwork for this site was completed January 31, 1996.

5.1.3 Data Interpretation

Figures 3 and 4 show the plan-view maps, consisting of conductivity and in-phase field data, respectively. Both data sets show regional effects which characterize the inherent subsurface background conductivity levels. The data collection method minimized the "wavy" nonreciprocity effects caused by reversing the antenna orientation.

5.1.4 Anomaly Description

Table 1 lists the anomalies identified at Site 7. Most are near-surface, localized features likely related to previous training activities occurring onsite. Two high-amplitude responses were identified along the southwest site boundary, adjacent to the trailer park. These responses were classified as Type A based on their strength and their spatial map position to previous bum activities identified onsite (Figure 5). Possible sources for these anomalies may be the bum pits, metal containers used in fire training, reinforced building materials, or some other nondescript ferrous material buried onsite. Type C anomalies, attributed to surface and subsurface culture, are quite prevalent; the most noticeable example is the linear feature leading to Building 1713. The probable source for this anomaly may be a water or gas line. The strong signature of this cultural response is due to frequency coupling along the north-south traverses. Culture can mask meaningful anomalies; however, at this site, the culture is in areas that do not obscure site interpretation.

Figure 3 Conductivity – Site 7

Figure 4 In-Phase – Site 7

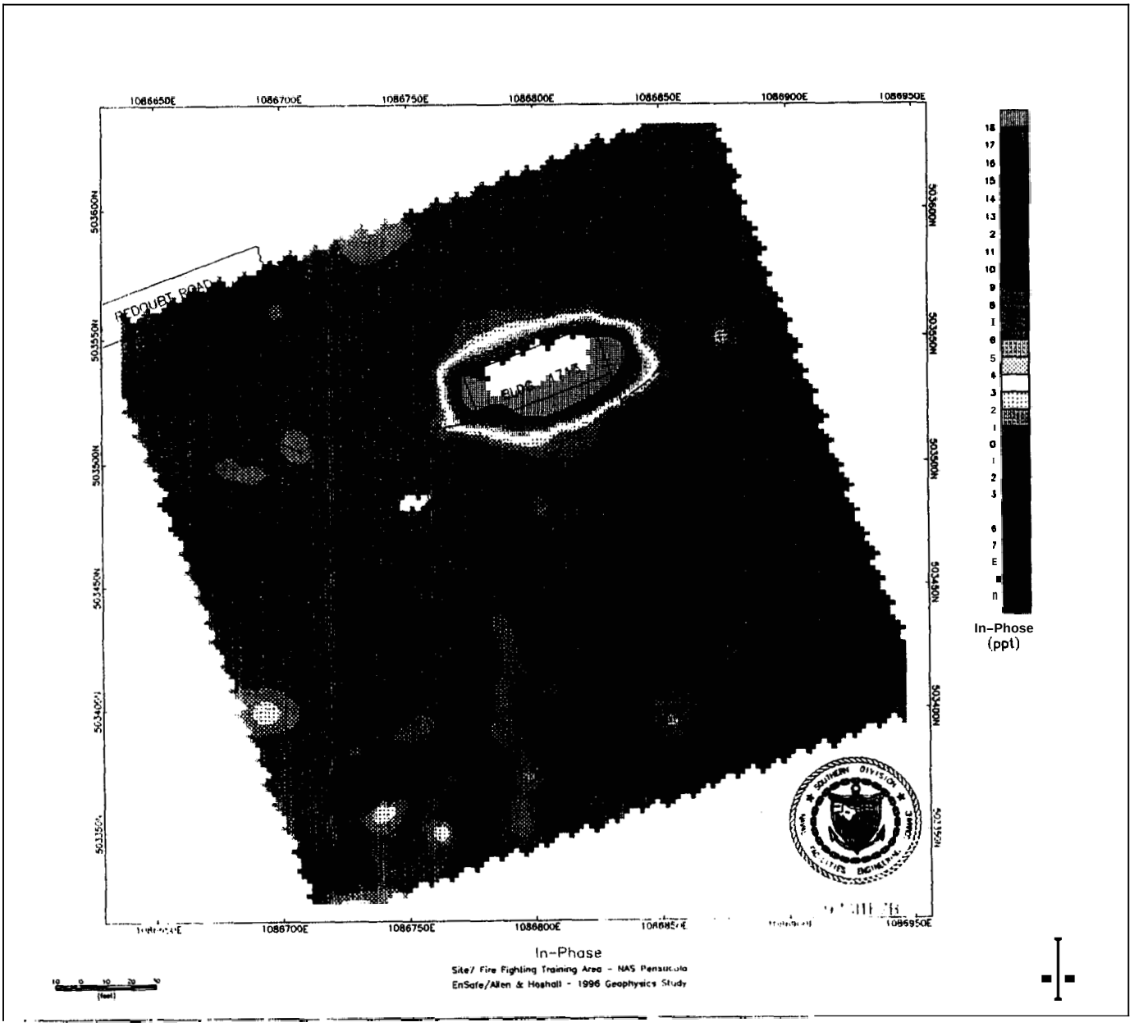


Figure 5 Geophysical Anomaly Map – Site 7

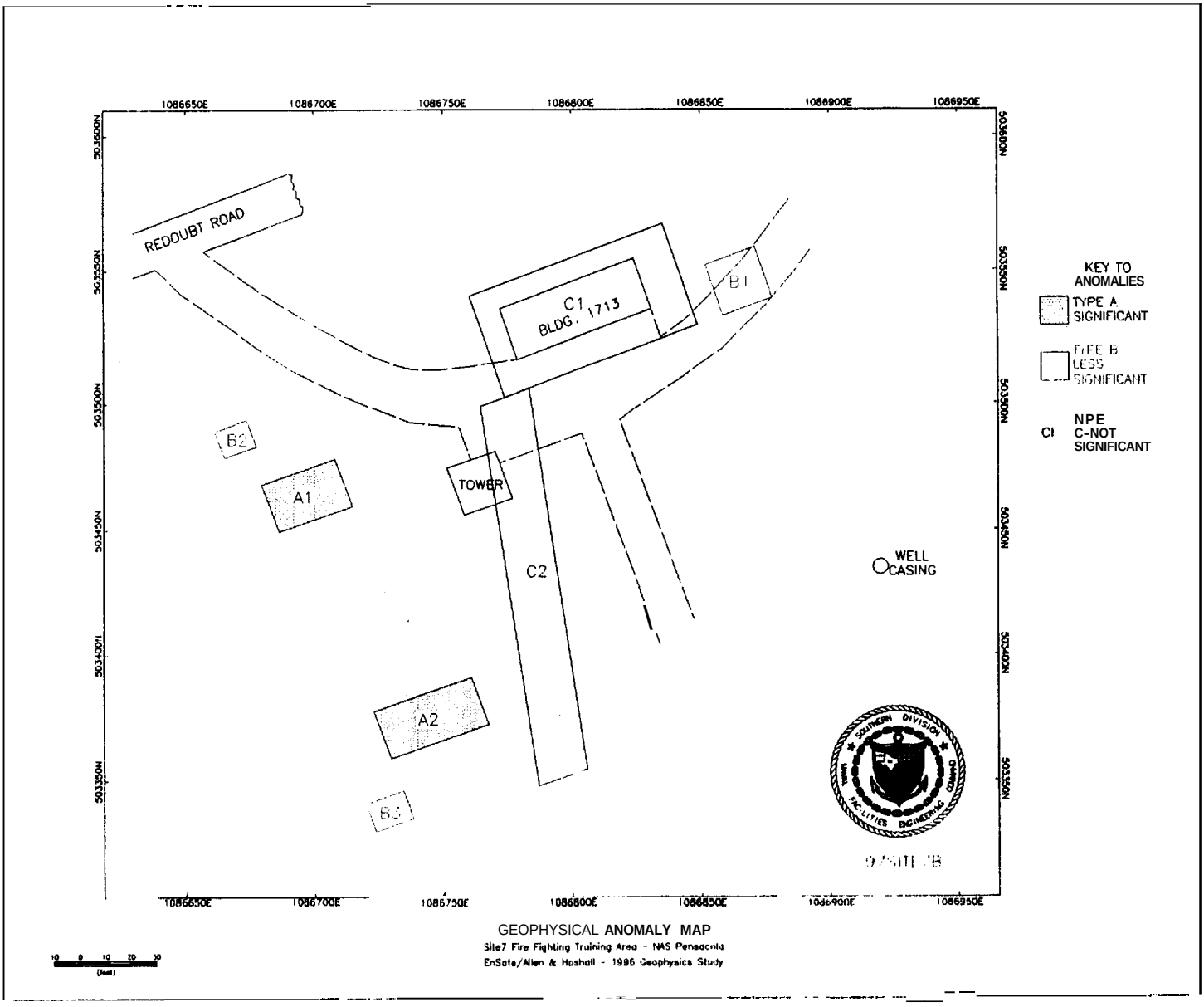


Table 1
Anomaly Interpretations, Si 7 Fire Fighting Training Area

No.	Best Position to Investigate	Notes
TYPE A ANOMALIES: RECOMMENDED FOR FOLLOW-UP		
A1 A2	1086700E/503450N 1086750E/503350N	*Strong* response in both conductive and in-phase data sets. The highly focused nature of the response footprint, in both data sets, would indicate a concentrated metal source recorded in one or two station readings. These anomalies are classified Type A due to their size and strength; follow-up is recommended.
TYPE B ANOMALIES: SECONDARY FEATURES OF LOWER PRIORITY		
B1	1086870E/503350N	Moderate anomaly. Investigation recommended only if anomalies AI and A2 show material of concern.
B2	1086655E/503480N	Minor anomaly.
B3	1086725E/503345N	Minor anomaly.
TYPE C ANOMALIES: NOT RELATED TO SUBSURFACE FEATURES		
C1	-	Building.
c2	-	Buried utilities.

5.2 Site 4

5.2.1 Setting and Regional Geology

Site 4 is an open field adjacent to Building 3581 and southwest of San Carlos Road. Site history indicates previous usage may have supported flight-line activities or Building 3581. Site topography is generally flat excluding a small drainage depression adjacent to Building 3581 parking lot. Several small piles of metal tubing were discarded along the parking lot boundary. Near the middle of the field, a slightly rectangle outline of a buried feature, possibly an abandoned foundation, is evident. During grid installation, cement was identified 4 to 5 inches below the surface. Site vegetation consists mainly of grass and weeds, with occasional bare soil or stressed grass. The northwestern portion of the site has a small stand of pine trees. A second smaller parking lot for another facility is nearby.

5.2.2 Field Procedures

Site 4 data were collected on a 12-foot grid interval with each node marked with either a wood stake or high-visibility paint. All data were collected walking north on even-numbered lines and south on odd-numbered lines. Data were acquired over two days, mostly the first day, February 5, 1996. The next day's effort focused on collecting data along the airfield southwest of Building 3581.

5.2.3 Data Interpretation

Figures 6 and 7 show plan-view maps of conductivity and in-phase field data, respectively. Most of the recorded response onsite could be characterized as nominal. Moderate anomalous responses occur in localized areas near surface and subsurface culture. The site is generally clear of significant anomalous activity not easily tied to known culture.

5.2.4 Anomaly Description

Table 2 lists the anomalies identified at Site 4. Most of the anomalous activity can be linked to cultural source bodies. Only three minor responses went unmatched to known culture during data interpretation. These anomalies are classified as Type B based on their minimal frequency signature and response footprint (Figure 8). The probable source for these anomalies is most likely nondescript metal debris associated with past site activities. The most likely source for anomaly B3 may be an abandoned drainage feature. Numerous Type C anomalies are present across the site. One interesting anomaly not linked to a surface source is labeled C2. This response appears to be of an underground utility servicing either the tower or Building 3581.

Figure 6 Conductivity – Site 4

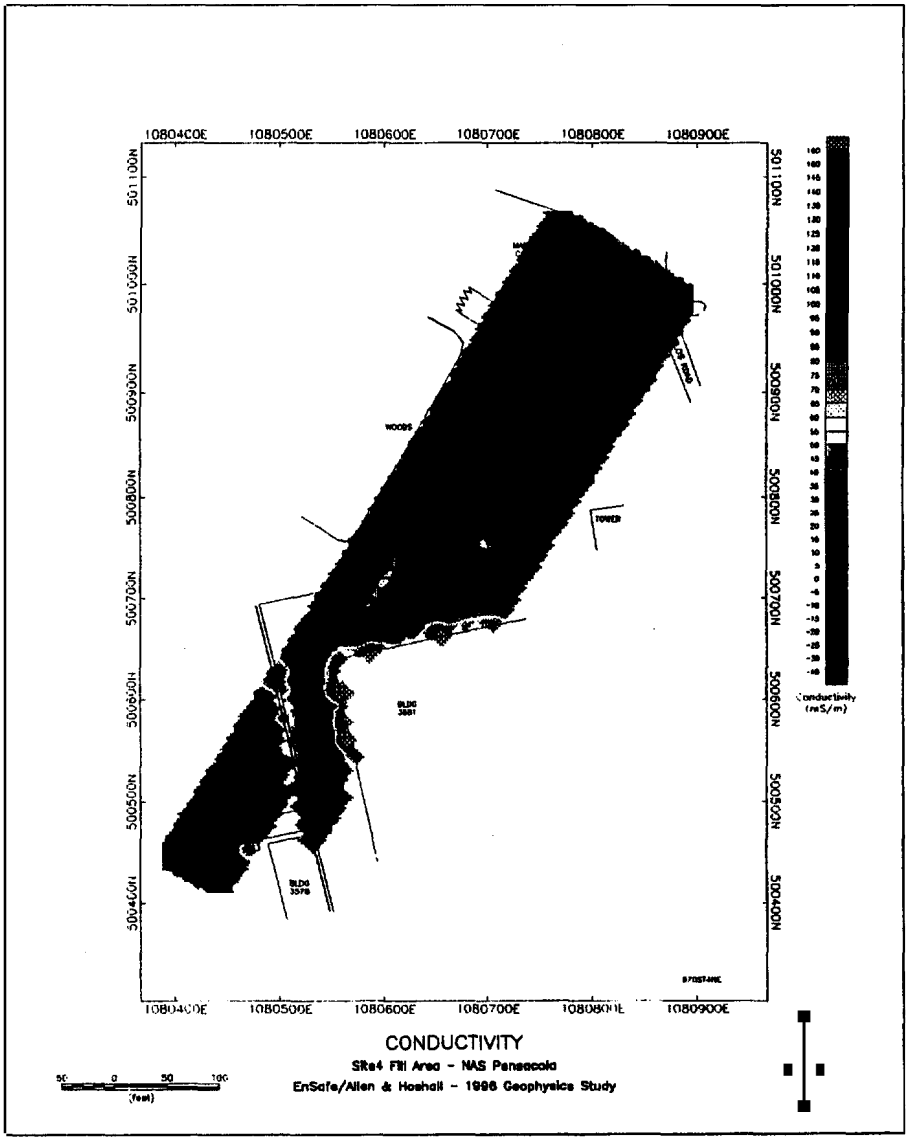


Figure 7 In-Phase – Site 4

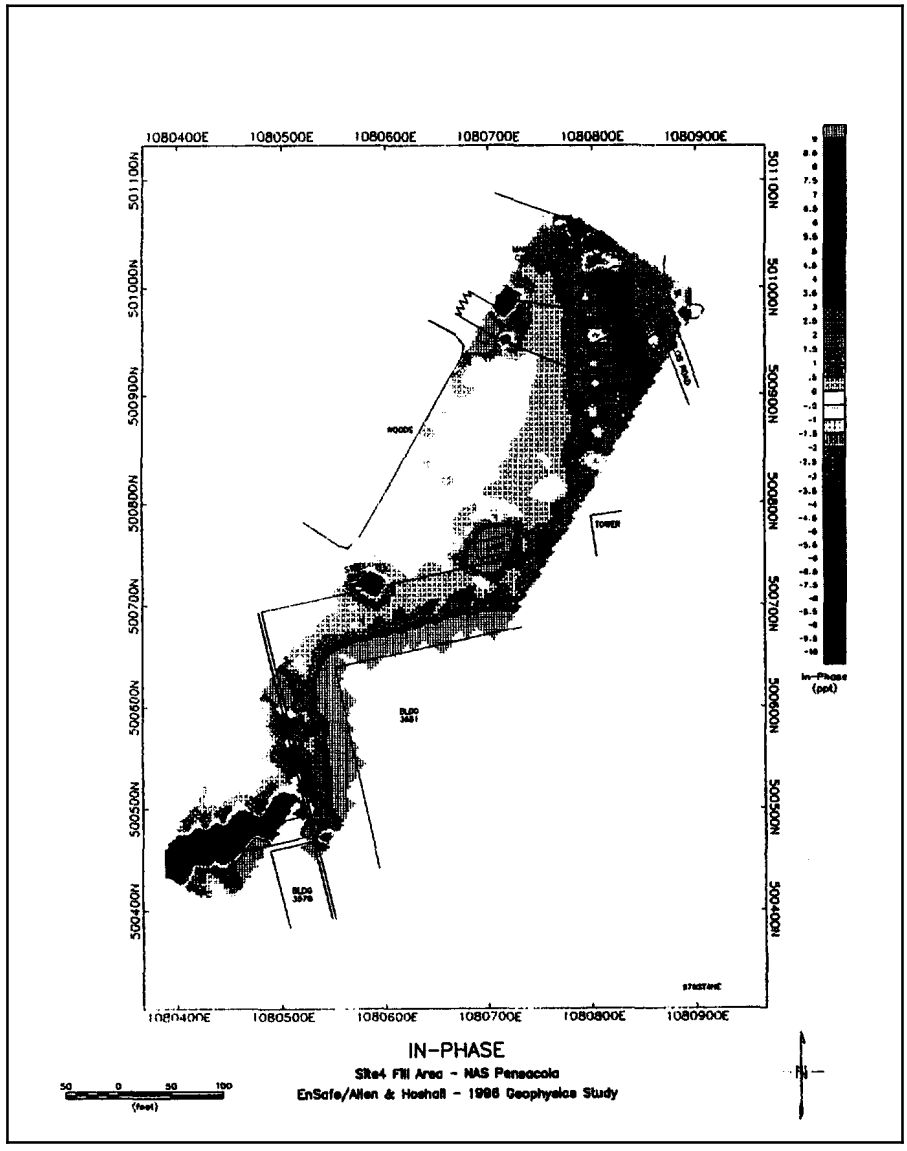


Figure 8 Geophysical Anomaly Map – Site 4

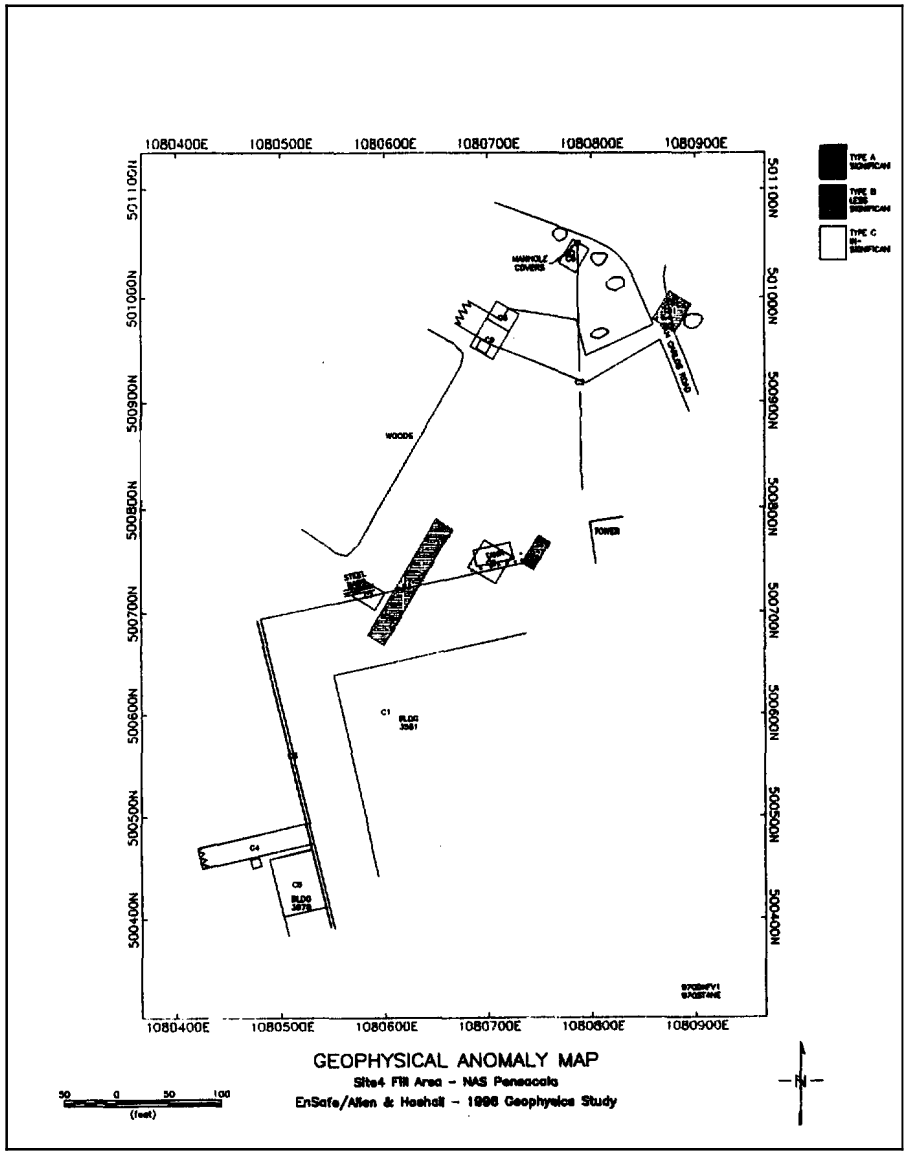


Table 2
Anomaly Interpretations, Site 4

No.	Best Position to Investigate	Notes
TYPE A ANOMALIES: RECOMMENDED FOR FOLLOW-UP		
-	-	No Type A anomalies were found.
TYPE B ANOMALIES: SECONDARY FEATURES OF LOWER PRIORITY		
B1	1080900E/500990N	Moderate anomaly; representative of several small anomalies in the area. Not recommended for follow-up based on the geophysics data.
B2	1080750E/500750N	*Strong* anomaly; buried metal indicated. Source may be related to nearby surface culture. Follow-up not recommended.
B3	1080600E/500700N	Moderate anomaly in the conductive data set. Absence of in-phase signature would eliminate metal as response source. Drainage feature most likely source for anomaly.
TYPE C ANOMALIES: NOT RELATED TO SUBSURFACE FEATURES		
C1	-	Building 3581.
c 2	-	Utilities and other culture, producing linear feature..
c 3	-	Fence.
c 4	-	Reinforced concrete.
c 5	-	Reinforced concrete and Building 3578.
C6	-	Manhole covers to utilities.
c 7	-	Surface metals.
C8	-	Surface fuel tank.
c 9	-	Trash dumpster.
C10	-	Vehicle in parking lot.

5.3 Site 16

5.3.1 Setting and Regional Geology

The third geophysics survey was conducted at Site 16 on the south side of NAS Pensacola, northeast of Forrest Sherman Field. Due to the area's size, the geophysics survey was divided into two investigations. The first investigation was conducted southeast of Bayou Grande. This portion of Site 16 is a mix of dense pine forests and cleared unvegetated beach sand. The cleared section is an active Navy landfill for low-grade scrap metal, trash, and hurricane debris. Numerous piles of scrap metal and fallen timber collected from around the base were visible across the site. Navy practice was to excavate pits for burial debris, and then to fill the

excavations with beach sand. The oldest portion of the landfill was in the wooded section immediately southeast of Bayou Grande. A walkthrough investigation with military personal identified numerous debris piles in the forest.

The second investigation was conducted in the southwestern comer of the site. This portion of Site 16 is isolated by a drainage ditch that flows into Bayou Grande. The area has mixed vegetation of light pine forest, beach grass, and weeds. This section also showed evidence of excavation with numerous earthen piles and pits scattered across the site.

5.3.2 Field Procedures

The grids at Site 16 were placed on a 10-foot grid interval, selected based on the small target size of the source bodies expected in the landfill. Acquisition began in the southwest section on February 29, 1996, and was completed in two days. Data were collected walking north on even-numbered lines and south on odd-numbered lines. The receiver antenna was pointed north on even lines and south on odd lines. Fieldwork for this site was completed on March 1, 1996.

Data acquisition in the active landfill began March 2. This area was considerably larger and required four days to complete. Data were collected along north-south traverses on grid locations with flagged east-west cross lines. Fieldwork was completed March 6, 1996.

5.3.3 Data Interpretation

Figures 9, 10, 11, and 12 show the plan-view maps, consisting of conductivity and in-phase field data. The two sets show moderate broad-band regional effects which characterize the inherent background conductivity levels of the subsurface. Due to the prolonged period of data acquisition in the active landfill, several time-dependent features were introduced into the data presentation. The most evident feature is a banding of colors across several sections of the site. These patterns are the visual artifacts of long-term drift during the course of the survey. If a survey lasts more

Figure 9 Conductivity Map – Site 16

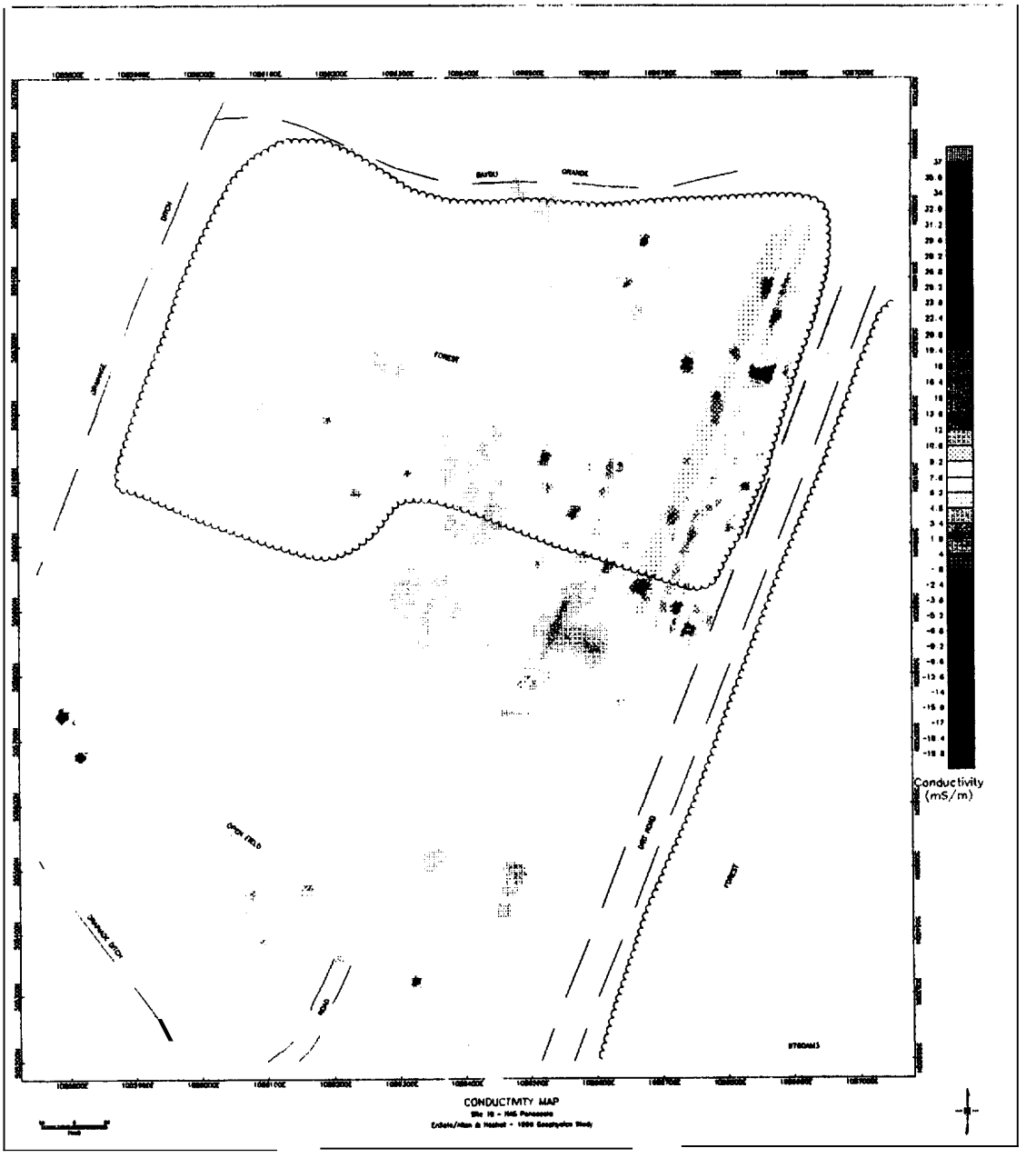


Figure 10 In-Phase Anomaly Map — Site 16

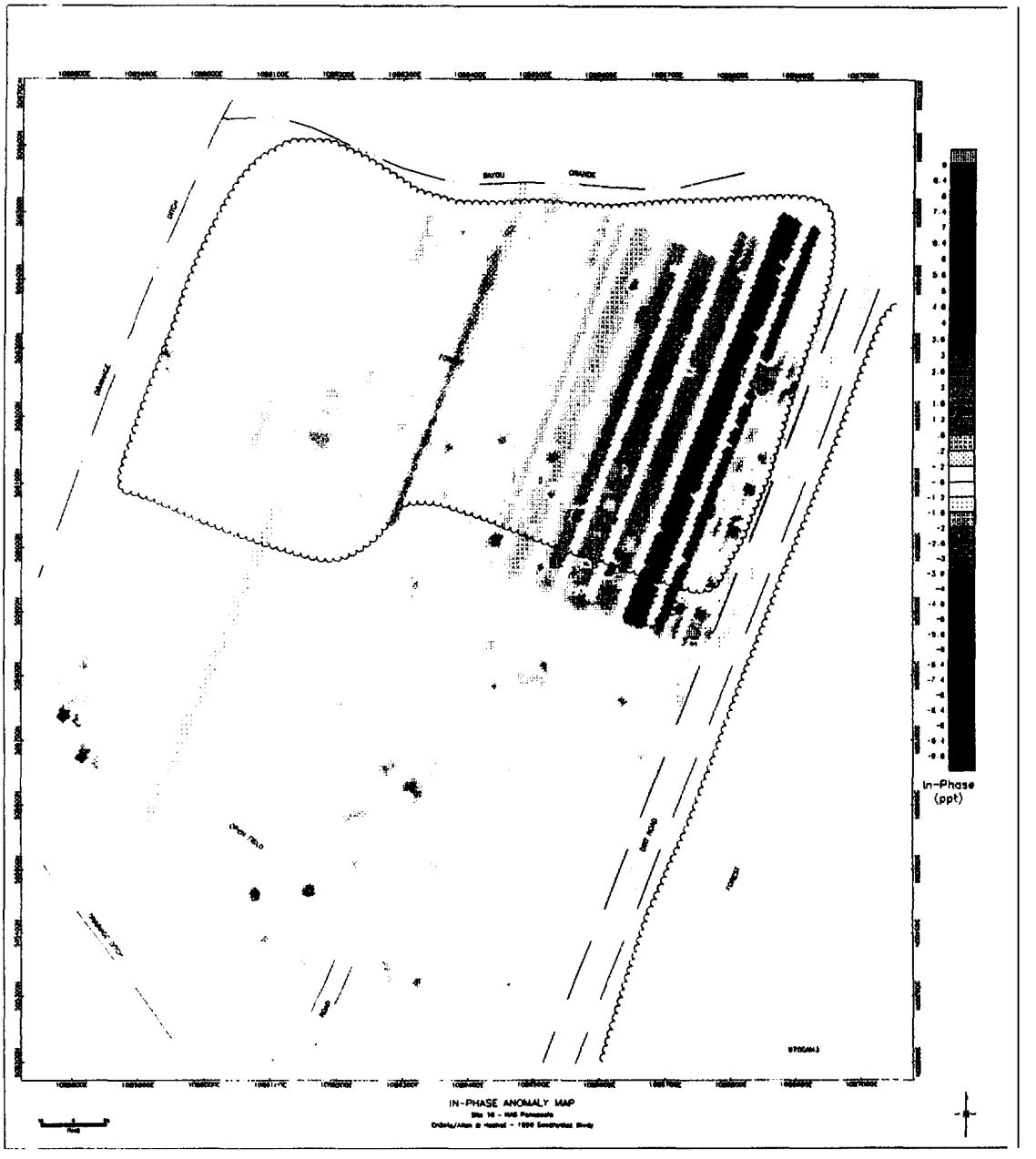


Figure 11 **Conductivity – Site 16 SW**

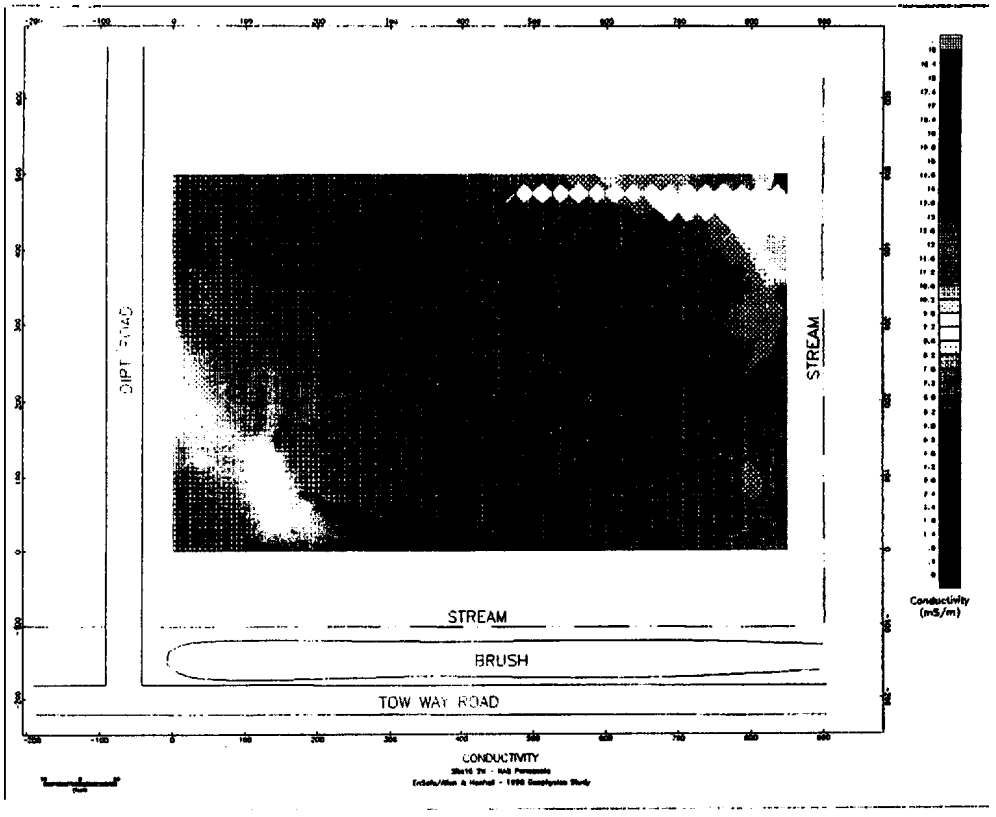
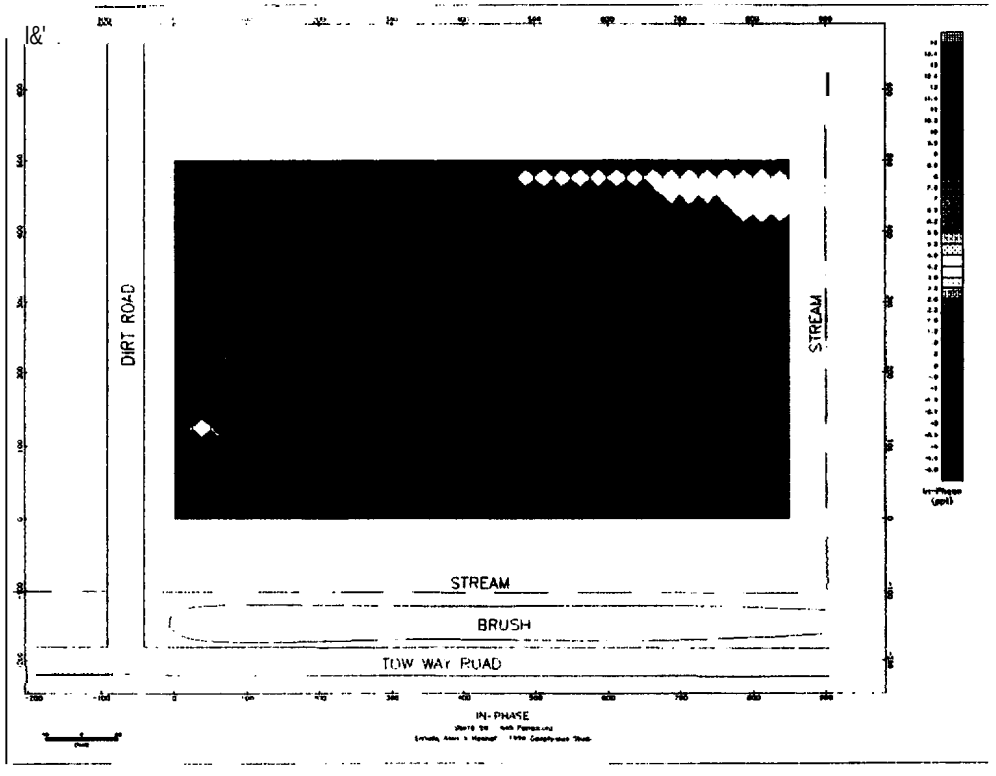


Figure 12 In-Phase – Site 16 SW



than several hours, instrument drift may introduce a subtle shift in the recorded data. In most cases, the instruments are calibrated finely enough to minimize this error. In this survey, however, a drift correction was required because data were collected over four days. The net result of the correction was to equate all the field data back to the first base station reading from March 2. The correction was effective for most of the data set. For areas still retaining the banding artifact, the data quality is degraded, but still remains reliable for interpretation.

5.3.4 Anomaly Description

Tables 3 and 4 list the anomalies identified at Site 16. Five anomalies in the active landfill were classified Type A based on their high-frequency content and broad response footprint. (Figure 13) The relatively large response of these anomalies would indicate a significant source body. The rest of the anomalies identified in the landfill were classified as Type B. In general, the Type B responses exhibited narrowly focused, low-frequency signatures typical for nondescript metal debris. Segmented metal tubing, siding, and general shop metal waste were identified during the walkthrough of the landfill. It is likely that most of these Type B anomalies have source bodies similar to what was observed on the surface.

The southwest section is generally free of significant anomalous activity. Only one feature was identified as significant and classified as a Type B. (Figure 14) This anomaly has a well-defined conductivity signature, which often indicates soil disturbance. The linear nature of the anomaly may imply a history of excavation or dumping onsite; the absence of an in-phase component would tend to support past excavation as the anomaly's cause.

Figure 13 Geophysical Anomaly Map – Site 16

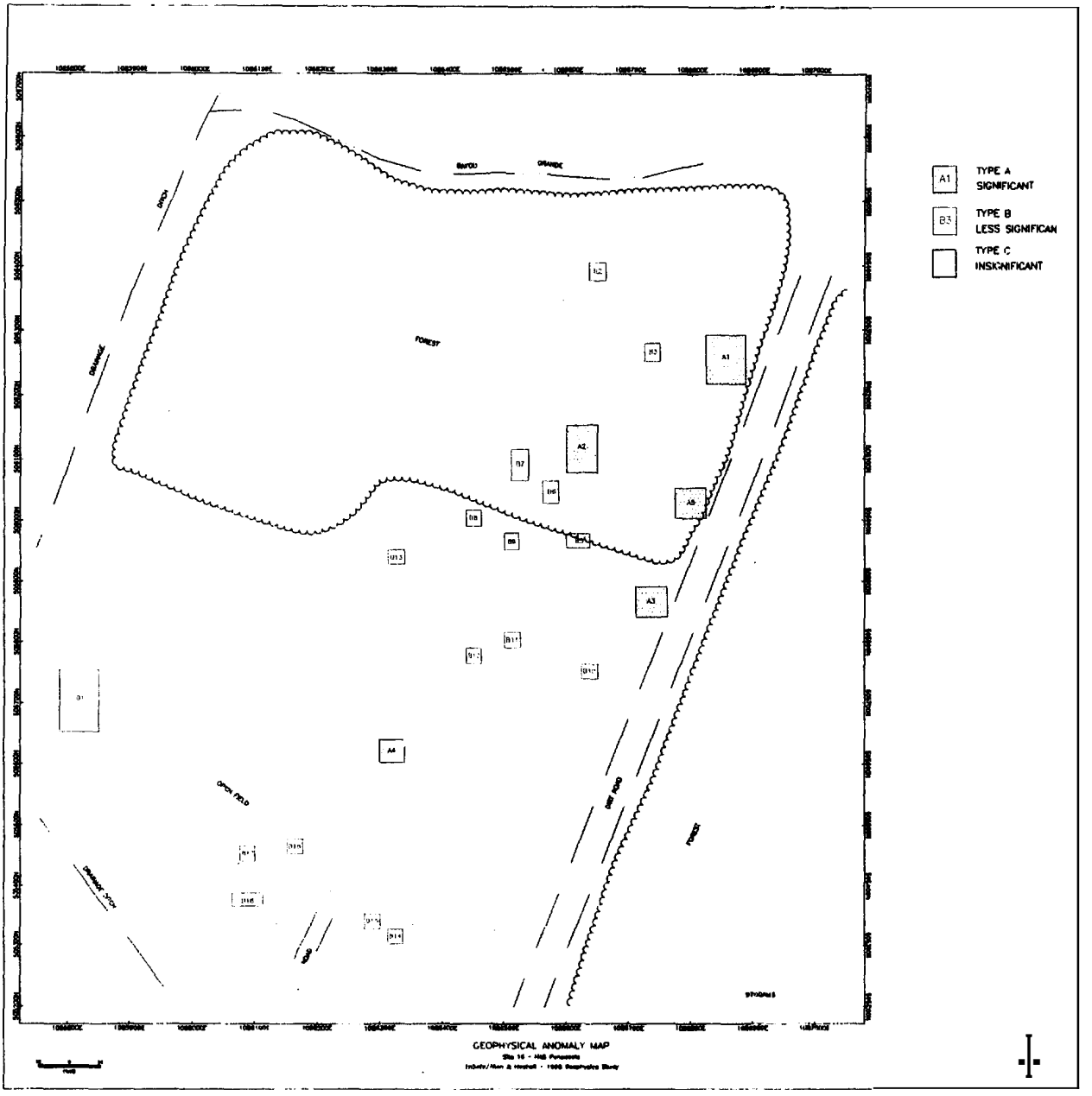
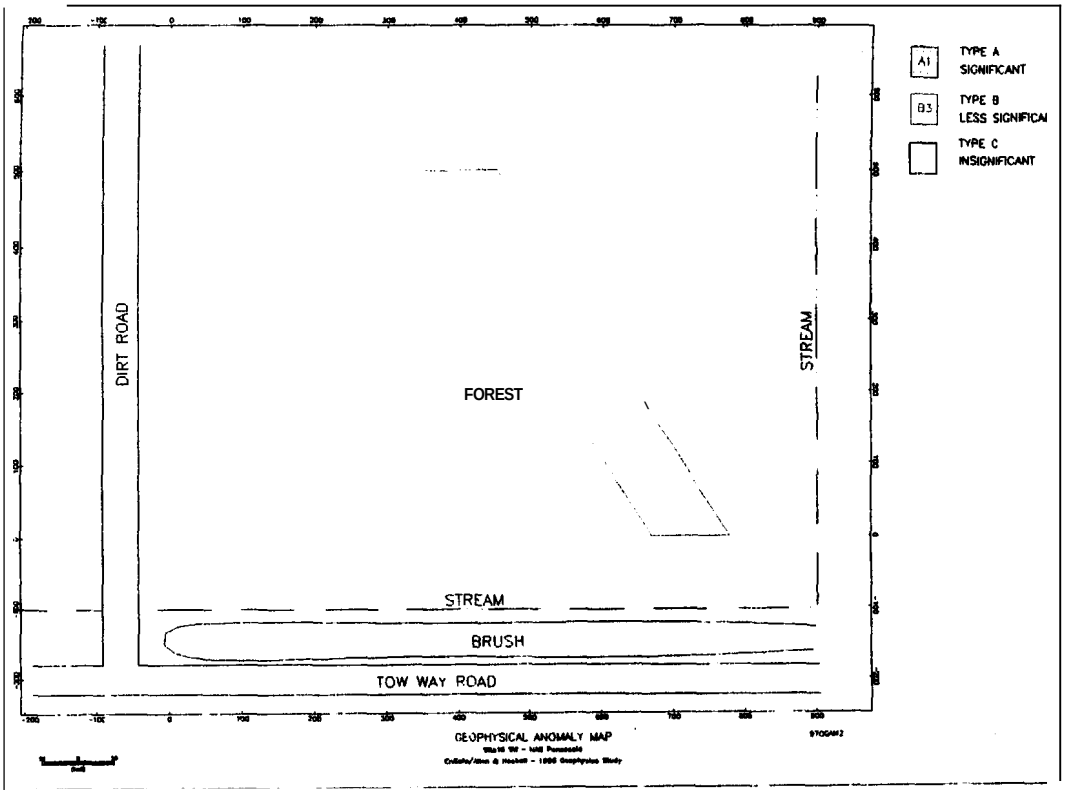


Figure 14 Geophysical Anomaly Map – Site 16 SW



Tabk 3
Anomaly Interpretations, Site 16 Active Landfill Section

No.	Best Position to Investigate	Notes
TYPE A ANOMALIES: RECOMMENDED FOR FOLLOW-UP		
A1	1086800E/506250N	Strong anomaly; buried metal indicated. Complex anomaly pattern could indicate several small metal objects. A high priority for follow-up. Moderately well-defined zone of higher soil moisture and metal content.
A2	1086600E/506100N	Strong anomalous zone; buried metals indicated. Demolition debris was observed buried nearby and this may due to the same, but the strength and size of the anomaly suggests further investigation. If material of environmental concern is found, other anomalies in the area should be upgraded to Type A status.
A3	1086700E/505880N	Same as A2.
A4	1086300E/505630N	Moderate Type A anomaly; buried metal indicated.
A5	1086770E/506040N	Strong anomaly: buried metals indicated. Demolition debris observed nearby.
TYPE B ANOMALIES: SECONDARY FEATURES OF LOWER PRIORITY		
B1	1085800E/505700N	Moderate anomaly in area of stressed grass.
B2	1086600E/506400N	Minor anomaly near soil pile.
B3	1086730E/506270N	Minor anomaly near soil pile.
B5	1086550E/505950N	Strong anomaly. Investigation recommended if anomaly A2 shows material of concern. Moderate anomaly.
B6	1086570E/506070N	Minor anomaly.
B7	1086510E/506090N	Minor anomaly.
B8	1086430E/506010N	Minor anomaly.
B9	1086580E/505990N	Minor anomaly.
B10	1086620E/505740N	Minor anomaly.
B11	1086500E/505790N	Minor anomaly.
B12	1086435E/505750N	Moderate anomaly.
B13	1086310E/505945N	Minor anomaly.
B14	1086330E/505300N	Minor anomaly.
B15	1086290E/505330N	Moderate anomaly possible associated with gravel service road.
B16	1086165E/505475N	Moderate anomaly.
B17	1086090E/505460N	Moderate anomaly.
B18	1086075E/505375N	

Table 4
Anomaly Interpretations, Site 16 Southwestern Section

No.	Best Position to Investigate	Notes
TYPE A ANOMALIES: RECOMMENDED FOR FOLLOW-UP		
-	-	No Type A anomalies were found.
TYPE B ANOMALIES: SECONDARY FEATURES OF LOWER PRIORITY		
0	600E/250N	Strong conductive anomaly. It is unclear if this is due to pervasive culture in the area or if it represents an area of construction rubble or till.

6.0 CONCLUSIONS

The geophysical surveys performed at NAS Pensacola sufficiently defined the surveyed areas to support the following conclusions. Site 4 is generally free of significant anomalous activity related to environmental concern. Three minor Type B anomalies were scattered across the site. The frequency signatures and response footprints of these anomalies do not suggest sites for concern. Further invasive investigation is not recommended.

The survey results from Site 7 identified two strong Type A anomalies along the southwestern site boundary. Information from local military personnel indicates several bum pits were in this section of the site. Several smaller, less-significant Type B anomalies were also identified onsite.

The geophysics survey at Site 16 identified five strong Type A anomalies in the active landfill area. The high-frequency signatures and large response footprints of these anomalies indicate significant buried material. Numerous Type B anomalies were also identified in the landfill. Survey results from the southwest section indicate that area generally is free of anomalous activity. One Type B anomaly was identified in the conductivity data set. No further investigation in the southwest section is recommended.

A site walkover, possibly followed by invasive investigation, is recommended for Type A anomalies identified at Sites 7 and 16.

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Appendix B

Soil Boring Logs And Monitoring Well Construction Diagrams

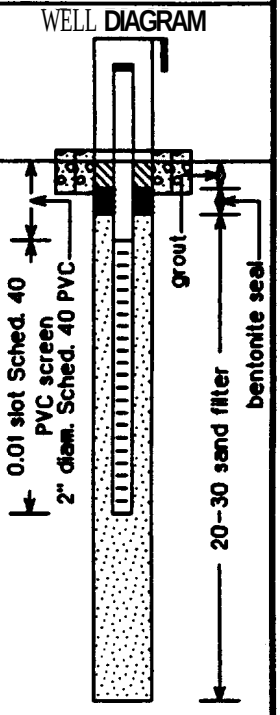
EnSafe/Allen & Hoshall

Monitoring Well 16GGS01

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1355 on 3-29-96*	TOC Elevation: *7.57 feet msl*
Completed at *1500 on 3-29-96*	Depth to Groundwater: *5.86 feet* Measured: *5-9-96*
Drilling Method: *4.25-inch I.D. Hollow Stem Auger*	Groundwater Elevation: *1.71 feet msl*
Drilling Company: *GZA*	Total Depth: *10 feet*
Geologist: *C. Smith*	Well Screen: *1.5 to 6.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Surface Conditions: Barren Soil	
			HA-2					Sand with Organic Matter, dark gray. fine to medium, moist.	
			HA-3		0				
			HA-4						
			HA-5						
5					0		SP	Sand, trace Silt, brown, fine to medium, moist to wet below 4 feet bls.	
					0				
					0			End of boring at 10.0' bls.	
10									
15								Notes: HA = Hand Auger Samples Collected: 016S000101 016S000104 plus grain size 016K000104 016X000104	
20									
25									

WELL DIAGRAM



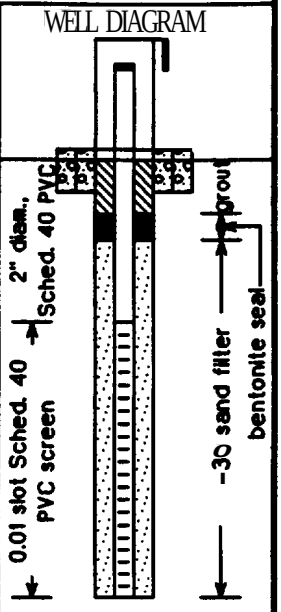
EnSafe/Allen & Hoshall

Monitoring Well 16GGS02

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1515 on 3-29-96*	TOC Elevation: *11.10 feet msl*
Completed at *1550 on 3-29-96*	Depth to Groundwater: *9.17 feet* Measured: *5-9-96*
Drilling Method: *4.25-inch I.D. Hollow Stem Auger*	Groundwater Elevation: *1.93 feet msl*
Drilling Company: *GZA*	Total Depth: *8.0 feet*
Geologist: *C. Smith*	Well Screen: *3 to 8 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Surface Conditions: Barren Soil	
			HA-2						
			HA-3		0			Sand, brown, fine to medium, moist.	
			HA-4				SP		
5			HA-5		0				
					0			Sand, trace Silt, light tan to brown, fine to medium, wet below 6 feet bls.	
					0			End of boring at 8.0' bls.	
10								Notes: HA = Hand Auger Samples Collected: 016S000201 016S000205	
15									
20									
25									

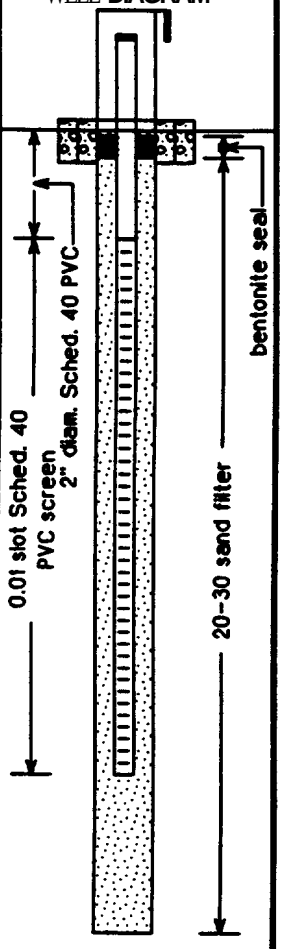
WELL DIAGRAM



afe , & Hoshall	Monitoring Well 16GGS03
Project: Site 16	Location: NAS Pensacola
Project No.: 0970-00030	Surface Elevation: feet msl
Started at 1120 on 3-22-96	TOC Elevation: 7.98 feet msl
Completed at 1200 on 3-22-96	Depth to Groundwater: 5.47 feet Measured: 5-9-96
Drilling Method: 4.25-inch I.D. Hollow Stem Auger	Groundwater Elevation: 2.07 feet msl
Drilling Company: GZA	Total Depth: 15.0 feet
Geologist: C. Smith	Well Screen: 2 to 12 feet

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Surface Conditions: Grass	
			HA-2					Sand, minor Silt, light brown, fine to medium, dry.	
			HA-3		0				
5					0				
					0		SP	Sand, trace Silt, dark brown, fine to medium, wet at 2.5 feet bls.	
					0				
10					0				
					0				
15					0			End of boring at 15.0' bls.	
20								Notes: HA = Hand Auger Samples Collected: 016S000301 016S000303	
25									

WELL DIAGRAM



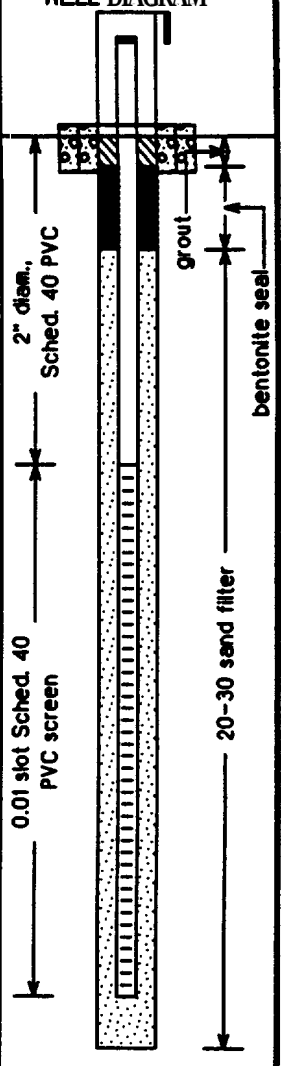
EnSafe/Allen & Hoshall

Monitoring Well 16GGS04

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1020 on 3-22-96*	TOC Elevation: *15.97 feet msl*
Completed at *1100 on 3-22-96*	Depth to Groundwater: *8.50 feet* Measured: *5-9-96*
Drilling Method: *4.25-inch I.D. Hollow Stem Auger*	Groundwater Elevation: *7.47 feet msl*
Drilling Company: *GZA*	Total Depth: *17.0 feet*
Geologist: *C. Smith*	Well Screen: *6 to 16 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Surface Conditions: Disturbed area of Grass and Sand.	
			HA-2						
			HA-3		0			Sand, minor Silt, brown, fine to medium, *dry* to moist.	
			HA-4						
			HA-5		0				
5					0				
					0			Sand, trace Silt, trace Clay, light brown, fine to medium, moist to wet at 8.5 feet Ms.	
					0		SP		
10					0				
					0				
15					0			Sand, minor Silt. dark brown, fine to medium, saturated	
					0			End of boring at 17.0' bls.	
20								Notes: HA = Hand Auger **Samples Collected:** *016S000401* 016S000405	
25									

WELL DIAGRAM



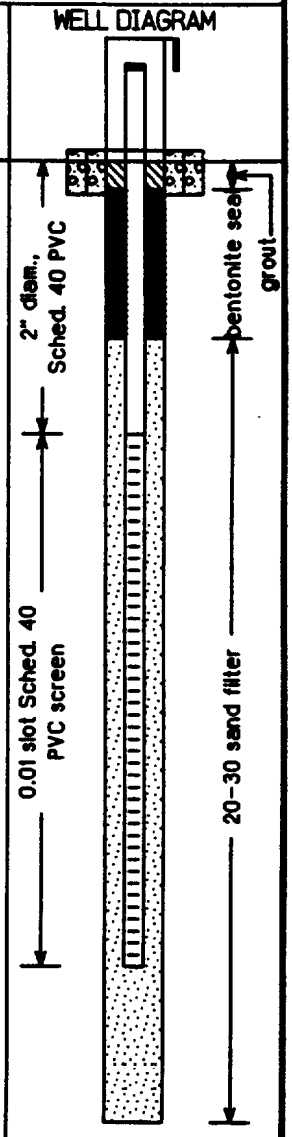
EnSafe/Allen & Hoshall

Monitoring Well 16GGS05

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *on 3-21-96*	TOC Elevation: *18.08 feet msl*
Completed at *on 3-21-96*	Depth to Groundwater: *9.08 feet* Measured: *5-9-96*
Drilling Method: *4.25-inch I.D. Hollow Stem Auger*	Groundwater Elevation: *9.00 feet msl*
Drilling Company: *GZA*	Total Depth: *18 feet*
Geologist: *C. Smith*	Well Screen: *5 to 15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Surface Conditions: Sand Fill. Sand, minor Silt, fine to medium, moist.	
			HA-2						
			HA-3		0				
			HA-4					Sand, trace Silt, trace Clay, buff white, fine to medium, moist.	
5			HA-5		0				
					0				
					0		SP		
10								Sand, minor Silt, dark brown, fine to medium, saturated below 9 feet bls.	
					0				
					0				
15					0				
					0			End of boring at 18.0' bls.	
20								Notes: HA = Hand Auger Samples Collected: 016S000501 016C000501 016K000501 016X000501 016S000805	
25									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 16GGS06

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1400 on 4-01-96*	TOC Elevation: *16.83 feet msl*
Completed at *1500 on 4-01-96*	Depth to Groundwater: *11.47 feet* Measured: *5-8-96*
Drilling Method: *4.25-inch I.D. Hollow Stem Auger*	Groundwater Elevation: *5.36 feet msl*
Drilling Company: *GZA*	Total Depth: *20.0 feet*
Geologist: *J. Lunceford*	Well Screen: *6 to 16 feet*

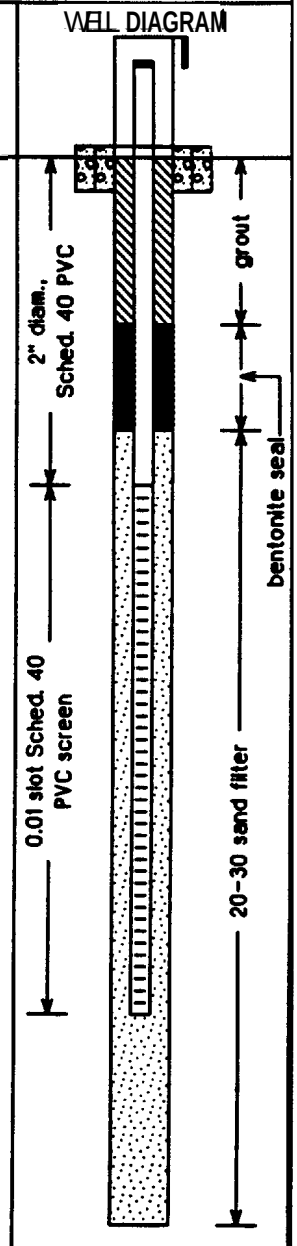
DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
			HA-1		0			Surface Conditions: Level, sandy, with scrub vegetation.
			HA-2					Sand, tan, fine to medium. Organic-rich Sand, dark gay, fine to medium.
			HA-3		0			
			HA-4					
5			HA-5		0			Sand, brown, fine to medium.
			HA-6					
			HA-7		0			
					0			
10							SP	
					0			
					0			Sand, brown, fine to medium.
15					0			
					0			
					0			End of boring at 20.0' Ws.
20								
25								

Notes:
HA = Hand Auger

Samples Collected:
016S000601
016S000607 plus grain size

4 (ft-msl)

WELL DIAGRAM



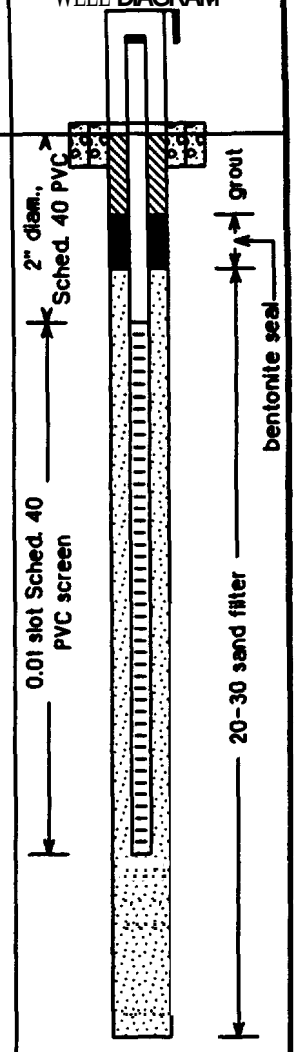
EnSafe/Allen & Hoshall

Monitoring Well 16GGS07

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1030 on 4-01-96*	TOC Elevation: *14.05 feet msl*
Completed at *1200 on 4-01-96*	Depth to Groundwater: *9.61 feet* Measured: *5-8-96*
Drilling Method: *4.25-inch I.D. Hollow Stem Auger*	Groundwater Elevation: *4.44 feet msl*
Drilling Company: *GZA*	Total Depth: *17.0 feet*
Geologist: *J. Luncsford*	Well Screen: *3.5 to 13.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Surface Conditions: Disturbed area of Grass and Sand.	
			HA-2						
			HA-3		0			Sand, minor Silt, brown, fine to medium, *dry* to moist.	
			HA-4						
5			HA-5		0				
			HA-6						
					0			Sand, trace Silt, trace Clay, light brown, fine to medium, moist to wet at 8.5 feet bls.	
					0				
10							SP		
					0				
					0			Sand, minor Silt, dark brown, *fine* to medium, saturated	
15					0				
								End of boring at 17.0' bls.	
					0				
					0			Notes: HA = Hand Auger	
20								Samples Collected: 016S000701 016S000706	
25									

WELL DIAGRAM



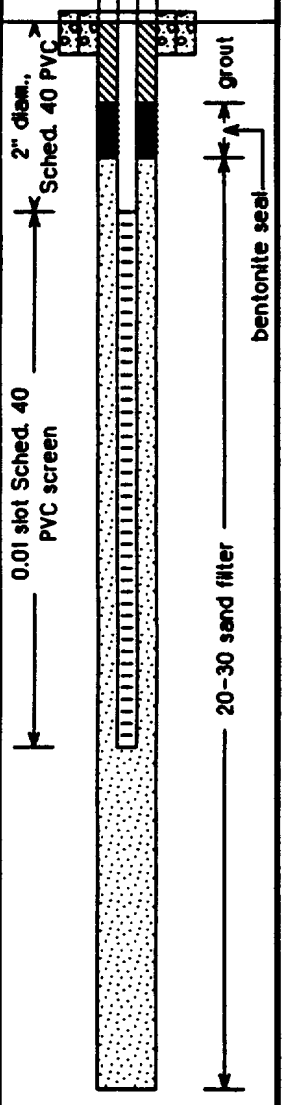
EnSafe/Allen & Hoshall

Monitoring Well 16GGS08

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1145 on 4-01-96*	TOC Elevation: *17.30 feet msl*
Completed at *1245 on 4-01-96*	Depth to Groundwater: *14.70 feet* Measured: *5-8-96*
Drilling Method: *4.25-inch I.D. Hollow Stem Auger*	Groundwater Elevation: *2.60 feet msl*
Drilling Company: *GZA*	Total Depth: *20.0 feet*
Geologist: *J. Lunceford*	Well Screen: *8.5 to 19.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Surface Conditions: Disturbed area of Grass and Sand.	
			HA-2						
			HA-3		0			Sand, minor Silt, brown, fine to medium, dry to moist.	
			HA-4						
			HA-5		0				
5			HA-6						
			HA-7		0			Sand. trace Sit, trace Cla; light brown. fine to medium, moist to wet at 8.5 eet bls.	
			HA-8						
			HA-9		0				
			Ha-6						
10			HA-11		0		SP		
			HA-t						
					0				
								Sand, minor Silt, dark brown, fine to medium, saturated	
15					0				
					0				
					0			End of boring at 20.0' bls.	
20									
25									

WELL DIAGRAM



Notes:
HA = Hand Auger

Samples Collected:
016S000801
016S000807
016S000812

EnSafe/Allen & Hoshall

Boring 16S09

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *J. Lunceford*
Started at *1400 on 4-09-96*	Surface Elevation:
Completed at *1430 on 4-09-96*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *8.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				SW	Surface Conditions: Scrub vegatative cover, level. Sand, quartzose. tan to brown grading to tan, fine to medium.	
			HA-2						
			HA-3						
			HA-4						
			HA-5					Sand quartzose, light tan to buff white, fine to medium.	
5			HA-6						
			HA-7				SM SC	Silty Sandy Clay, dark gray to black, cohesive, organic, wet at 8 feet bls.	8.3
			HA-8					End of boring at 8.0' bls.	8.3
10									
15									
20									
25									

Notes:
HA = Hand Auger

Samples Collected:
016S000901
016S000907

EnSafe/Allen & Hoshall	Boring 16S010
Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *J. Lunceford*
Started at *1100 on 4-11-96*	Surface Elevation:
Completed at *1150 on 4-11-96*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				SW SM	Surface Conditions: Moderate vegatative cover, level. Silty organic-rich Sand, quartzose, gray to brown, fine to medium.	
			HA-2				SW	Sand, quartzose, tan, well graded, fin to medium, moist/wet at 4 feet bls.	
			HA-3						
			HA-4					End of boring at 4.0' bls.	8.7
5									
10									
15									
20									
25									

Notes
HA = Hand Auger

Samples Collected:
016S001001
016S001004
016K001004
016X001004

EnSafe/Allen & Hoshall

Boring 16S011

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *J. Lunceford*
Started at *1200 on 4-11-96*	Surface Elevation:
Completed at *1220 on 4-11-96*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				SP SM	Surface Conditions: Sparse vegatative cover, level, reworked land surface from disposal activities. Silty Sand, quartzose, light gray, fine.	
			HA-2						
			HA-3				SW	Sand, quartzose, tan, well graded, fine to medium, moist/wet at 4 feet bls.	
			HA-4					End of boring at 4.0' bls.	
									14.5
5									
10									
15									
20									
25									

Notes:
HA = Hand Auger

Samples Collected:
016S001101
016S001104

EnSafe/Allen & Hoshall

Boring 16S012

Project: *Site 16*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *J. Lunceford*
Started at *0950 on 4-10-96*	Surface Elevation:
Completed at *1000 on 4-10-96*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *5.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1					Surface Conditions: level ground surface with scrub vegetation.	
			HA-2						
			HA-3				SP	Quartz Sand, tan to brown grading to light tan to buff white after 4 feet Ms, fine to medium. dry to moist to saturated at 5 feet Ms.	
			HA-4						
			HA-5					End of boring at 5.0' bls.	
5									0.90000
10									
15									
20									
25									

Notes:
HA = Hand Auger

Samples Collected:
016S001201
0169001205

Appendix C

Preliiary Remediation *Goals*

Preliminary Remediation Goals (PRGS) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Volatiles (µg/l)							
106-93-4	1, 2-Dibromoethane C	0.02	0.02	NA	NA	MA	NA
630-20-6	1,1,1,2-Tetrachloroethane C	NA	NA	NA	NA	1	NA
811-97-2	1,1,1,2-Tetrafluoroethane	NA	NA	NA	NA	MA	NA
71-55-6	1,1,1-Trichloroethane N	200	200	NA	NA	NA	NA
79-00-5	1,1,2-Trichloroethane C	5	5	NA	NA	MA	NA
598-77-6	1,1,2-Trichloropropane N	NA	NA	NA	NA	MA	NA
75-34-3	1,1-Dichloroethane N	NA	NA	NA	MA	700	NA
75-35-4	1,1-Dichloroethene C	7	7	NA	MA	MA	NA
75-37-6	1,1-Difluoroethane	NA	NA	NA	NA	MA	MA
96-18-4	1,2,3-Trichloropropane C	NA	NA	NA	MA	42	NA
96-19-5	1,2,3-Trichloropropene	NA	NA	NA	NA	NA	NA
615-54-3	1,2,4-Tribromobenzene N	NA	NA	NA	NA	NA	NA
120-82-1	1,2,4-Trichlorobenzene N	70	70	NA	NA	NA	NA
96-12-8	1,2-Dibromo-3-Chloropropane C	0.2	0.2	NA	NA	NA	NA
107-06-2	1,2-Dichloroethane	5	3	NA	NA	NA	NA
540-59-0	1,2-Dichloroethene (total) N	70	70	NA	NA	NA	NA
78-87-5	1,2-Dichloropropane C	5	5	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Volatiles (µg/l)							
106-99-0	1,3-Butadiene	NA	NA	NA	NA	NA	NA
542-75-6	1,3-Dichloropropene C	NA	NA	NA	NA	1	NA
106-37-6	1,4-Dibromobenzene N	NA	NA	NA	NA	NA	NA
764-41-0	1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	NA
123-91-1	1,4-Dioxane C	NA	NA	NA	NA	5	NA
75-68-3	1-Chloro-1,1-difluoroethane	NA	NA	NA	NA	NA	NA
109-69-3	1-Chlorobutane N	NA	NA	NA	NA	NA	NA
78-93-3	2-Butanone (MEK) N	NA	NA	NA	WA	4,200	NA
126-99-8	2-Chloro-1,3-butadiene N	NA	NA	NA	HA	NA	NA
110-75-8	2-Chloroethyl vinyl ether N	NA	NA	NA	NA	1	NA
75-29-6	2-Chloropropane	NA	NA	NA	NA	NA	NA
591-78-6	2-Hexam	NA	NA	NA	NA	NA	NA
101-68-8	4,4'-Methylenediphenyl isocyana	NA	NA	NA	NA	NA	NA
108-10-1	4-Methyl-2-Pentanone (MIBK) N	NA	NA	NA	NA	350	NA
67-64-1	Acetone N	NA	NA	NA	NA	700	NA
75-05-8	Acetonitrile N	NA	NA	NA	NA	500	NA
107-02-8	Acrolein N	NA	NA	NA	NA	110	NA
107-13-1	Acrylonitrile C	NA	NA	NA	NA	8	NA
107-05-1	Allyl chloride N	NA	NA	NA	NA	NA	NA
100-52-7	Benzaldehyde N	NA	NA	NA	NA	700	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Volatiles (µg/l)							
71-43-2	Benzene [C]	5	1	NA	NA	1	NA
95-63-6	Benzene, 1,2,4-trimethyl [N]	NA	NA	NA	NA	10	NA
108-67-8	Benzene, 1,3,5-trimethyl- [N]	NA	NA	NA	NA	10	NA
100-44-7	Benzyl chloride [C]	NA	NA	NA	NA	0.5	NA
542-88-1	Bis(chloromethyl)ether [C]	NA	NA	NA	NA	10	NA
75-27-4	Bromodichloromethane [C]	100	NA	NA	NA	0.6	NA
593-60-2	Bromoethene	NA	NA	NA	NA	NA	NA
75-25-2	Bromoform [C]	100	NA	NA	NA	4	NA
74-83-9	Bromomethane [N]	NA	NA	NA	NA	10	NA
75-15-0	Carbon disulfide [N]	NA	NA	NA	NA	700	NA
56-23-5	Carbon tetrachloride [C]	5	3	NA	NA	3	NA
108-90-7	Chlorobenzene [N]	NA	NA	NA	NA	NA	NA
75-45-6	Chlorodifluoromethane	NA	NA	NA	NA	NA	NA
75-00-3	Chloroethane [N]	NA	NA	NA	NA	140	NA
67-66-3	Chloroform [C]	100	NA	NA	NA	6	NA
74-87-3	Chloromethane [C]	NA	NA	NA	NA	2.7	NA
1476-11-5	Cis-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	NA
4170-30-3	Crotonaldehyde	NA	NA	NA	NA	NA	NA
108-94-1	Cyclohexanone [N]	NA	NA	NA	NA	35,000	NA
1163-19-5	Decabromodiphenyl ether [N]	NA	NA	NA	NA	NA	NA

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Volatiles (µg/l)							
124-48-1	Dibromochloromethane C	NA	NA	NA	NA	1	NA
75-71-8	Dichlorodifluoromethane N	NA	NA	NA	NA	1,400	NA
77-73-6	Dicyclopentadiene N	NA	NA	NA	NA	NA	NA
60-29-7	Diethyl ether N	NA	NA	NA	NA	750	NA
107-12-0	Ethyl cyanide	NA	NA	NA	NA	NA	NA
100-41-4	Ethylbenzene N	700	700	NA	30	NA	NA
87-82-1	Hexabromobenzene N	NA	NA	NA	NA	NA	NA
78-83-1	Isobutyl alcohol N	NA	NA	NA	NA	2,100	NA
126-98-7	Methacrylonitrile N	NA	NA	NA	NA	50	NA
74-88-4	Methyl iodide	NA	NA	NA	NA	NA	NA
98-83-9	Methyl styrene (alpha) N	NA	NA	NA	NA	NA	NA
25013-15-4	Methyl styrene (mixture) N	NA	NA	NA	NA	NA	NA
1634-04-4	Methyl tert-butyl ether W	NA	NA	NA	NA	50	NA
74-95-3	Methylene bromide N	NA	NA	NA	NA	NA	NA
75-09-2	Methylene chloride C	5	5	NA	NA	NA	NA
100-42-5	Styrene N	100	100	NA	NA	NA	NA
127-18-4	Tetrachloroethene C	5	3	NA	NA	NA	NA
109-99-9	Tetrahydrofuran	NA	NA	NA	NA	NA	NA
108-88-3	Toluene N	1,000	1,000	NA	40	NA	NA
79-01-6	Trichloroethene C	5	3	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Volatiles (µg/l)							
75-69-4	Trichlorofluoromethane [N]	MA	MA	MA	NA	2,100	NA
108-05-4	Vinyl acetate [N]	MA	MA	MA	NA	250	NA
75-01-4	Vinyl chloride [C]	2	1	MA	MA	MA	NA
1330-20-7	Xylene (Total) [N]	10,000	10,000	MA	20	MA	NA
156-59-2	cis-1,2-Dichloroethene [N]	70	70	MA	NA	MA	MA
10061-01-5	cis-1,3-Dichloropropene [N]	MA	MA	NA	MA	1	MA
99-08-1	m-Nitrotoluene [N]	MA	MA	MA	NA	NA	NA
108-38-3	m-Xylene	10,000	10,000	NA	20	MA	NA
110-54-3	n-Hexane [N]	NA	MA	MA	MA	10	NA
95-49-8	o-Chlorotoluene [N]	MA	NA	MA	MA	140	NA
88-72-2	o-Nitrotoluene [N]	MA	MA	MA	NA	MA	MA
95-47-6	o-Xylene [A]	10,000	10,000	NA	20	NA	MA
5216-25-1	p,a,a,a-Tetrachlorotoluene [C]	MA	MA	MA	MA	MA	NA
99-99-0	p-Mitrotoluene [N]	MA	MA	MA	NA	MA	NA
106-42-3	p-Xylene	10,000	10,000	MA	20	MA	NA
135-98-8	sec-Butylbenzene [N]	MA	NA	MA	MA	MA	NA
104-51-8	tert-Butylbenzene [N]	MA	MA	MA	MA	MA	NA
156-60-5	tram-1,2-Dichloroethene [N]	100	100	MA	MA	MA	NA
10061-02-6	tram-1,3-Dichloropropene [C]	MA	MA	MA	MA	1	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Semivolatiles (µg/l)							
634-66-2	1,2,3,4-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA
634-90-2	1,2,3,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA
87-61-6	1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA
95-94-3	1,2,4,5-Tetrachlorobenzene N	NA	NA	NA	NA	4	NA
120-82-1	1,2,4-Trichlorobenzene	70	70	NA	NA	NA	NA
95-50-1	1,2-Dichlorobenzene N	600	600	NA	WA	NA	NA
108-70-3	1,3,5-Trichlorobenzene	NA	NA	NA	NA	NA	NA
99-35-4	1,3,5-Trinitrobenzene N	NA	NA	NA	WA	60	NA
541-73-1	1,3-Dichlorobenzene N	600	NA	NA	WA	10	NA
99-65-0	1,3-Dinitrobenzene N	NA	NA	NA	WA	50	NA
106-46-7	1,4-Dichlorobenzene C	75	75	NA	WA	NA	NA
130-15-4	1,4-Naphthoquinone	NA	NA	NA	NA	NA	MA
90-13-1	1-Chloronapthalene	NA	NA	NA	NA	NA	NA
90-12-0	1-Methylnaphthalene N	NA	NA	NA	WA	NA	NA
134-32-7	1-Naphthylamine	NA	NA	NA	WA	NA	NA
108-60-1	2,2'-oxybis(1-Chloropropane)	NA	NA	NA	WA	NA	NA
58-90-2	2,3,4,6-Tetrachlorophenol N	NA	NA	NA	NA	210	WA
95-95-4	2,4,5-Trichlorophenol N	NA	NA	NA	NA	4	NA
88-06-2	2,4,6-Trichlorophenol C	NA	NA	NA	NA	10	NA
120-83-2	2,4-Dichlorophenol N	NA	NA	NA	NA	4	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

US #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Semivolatiles (µg/l)							
105-67-9	2,4-Dimethylphenol N	NA	NA	NA	NA	400	NA
51-28-5	2,4-Dinitrophenol N	NA	NA	NA	NA	30	NA
121-14-2	2,4-Dinitrotoluene N	NA	NA	NA	NA	0.2	NA
87-65-0	2,6-Dichlorophenol N	NA	NA	NA	NA	4	NA
606-20-2	2,6-Dinitrotoluene N	NA	NA	NA	NA	0.2	NA
91-58-7	2-Chloronaphthalene N	NA	NA	NA	MA	560	NA
95-57-8	2-Chlorophenol N	NA	NA	NA	NA	35	NA
99-55-8	2-Methyl-5-nitroaniline C	NA	NA	NA	NA	NA	NA
636-21-5	2-Methylaniline hydrochloride C	NA	NA	NA	MA	NA	NA
91-57-6	2-Methylnaphthalene N	NA	NA	NA	NA	NA	NA
95-48-7	2-Methylphenol (0-Cresol) N	NA	NA	NA	NA	350	NA
91-59-8	2-Naphthylamine C	NA	M	NA	NA	NA	NA
88-74-4	2-Nitroaniline N	NA	NA	NA	MA	7.5	NA
88-75-5	2-Nitrophenol N	NA	NA	NA	NA	20	NA
109-06-8	2-Picoline	NA	NA	NA	NA	NA	NA
91-94-1	3,3'-Dichlorobenzidine C	NA	NA	NA	NA	7.5	NA
119-90-4	3,3'-Dimethoxybenzidim C	NA	NA	NA	NA	250	NA
119-93-7	3,3-Dimethylbenzidine C	NA	NA	NA	NA	250	NA
56-49-5	3-Methylcholanthrene	NA	NA	NA	NA	NA	NA
108-39-4	3-Methylphenol (m-Cresol)	NA	NA	NA	NA	350	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

US #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Semivolatiles (µg/l)							
99-09-2	3-Nitroaniline N	NA	NA	NA	NA	NA	NA
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	NA
92-67-1	4-Aminobiphenyl	NA	NA	NA	NA	NA	NA
101-55-3	4-Bromophenyl-phenylether	NA	NA	NA	NA	NA	NA
59-50-7	4-Chloro-3-methylphenol	NA	NA	NA	NA	3,000	NA
106-47-8	6-Chloroaniline	NA	NA	NA	NA	28	NA
7005-72-3	4-Chlorophenylphenylether	NA	NA	NA	NA	10	NA
106-44-5	4-Methylphenol (p-Cresol)	NA	NA	NA	HA	35	NA
100-01-6	6-Nitroaniline N	NA	NA	NA	NA	NA	NA
100-02-7	4-Nitrophenol N	NA	NA	NA	NA	15	NA
56-57-5	4-Nitroquinoline 1-oxide	NA	NA	NA	NA	NA	NA
57-97-6	7,12-Dimethybenz(a)anthracene	NA	NA	NA	NA	NA	NA
83-32-9	Acenaphthene	NA	NA	NA	NA	20	NA
208-96-8	Acenaphthy1m N	NA	NA	NA	NA	10	NA
53-96-3	Acetamidofluorene	NA	NA	NA	NA	NA	NA
98-86-2	Acetophenone N	NA	NA	NA	NA	700	NA
62-53-3	Aniline	NA	NA	NA	NA	6	NA
120-12-7	Anthracene N	NA	NA	NA	NA	2,100	NA
140-57-8	Aramite C	NA	NA	NA	NA	NA	NA
103-33-3	Azobenzene C	NA	NA	NA	NA	4	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Semivolatiles (µg/l)							
98-87-3	Benzal chloride	NA	NA	NA	NA	NA	NA
101-14-4	Benzenamine, 4,4'-methylenebis[C	NA	NA	NA	NA	50	NA
92-87-5	Benzidine C	NA	NA	NA	NA	250	NA
56-55-3	Benzo(a)anthracene	NA	NA	NA	NA	4	NA
50-32-8	Benzo(a)pyrene	2	0.2	NA	NA	NA	NA
205-99-2	Benzo(b)fluoranthene	NA	NA	NA	NA	■	NA
191-24-2	Benzo(g,h,i)perylene N	NA	NA	NA	NA	10	NA
207-08-9	Benzo(k)fluoranthene	NA	NA	NA	NA	4	NA
65-85-0	Benzoic acid N	NA	NA	NA	NA	28,000	NA
98-07-7	Benzotrichloride C	NA	NA	NA	NA	NA	NA
100-51-6	Benzyl alcohol N	NA	NA	NA	NA	2,100	NA
39638-32-9	Bis(2-Chloroisopropyl)Ether C	NA	NA	NA	NA	7.5	NA
85-68-7	Butylbenzylphthalate N	NA	NA	NA	NA	1,400	NA
86-74-8	Carbazole	NA	NA	NA	NA	7.5	NA
218-01-9	Chrysene	NA	NA	NA	NA	5	NA
6055-19-2	Cyclophosphamide	NA	NA	NA	NA	NA	NA
84-74-2	Di-n-butylphthalate N	NA	NA	NA	NA	700	NA
117-84-0	Di-n-octyl phthalate N	NA	NA	NA	NA	140	NA
53-70-3	Dibenz(a,h)anthracene	NA	NA	NA	NA	7.5	NA
224-42-0	Dibenzo(a,j)acridine	NA	NA	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Semivolatiles (µg/l)							
	N						
	N						
	N						
	C						
	C						
77-47-4	Hexachlorocyclopentadiene N	50	50	NA	NA	NA	NA
67-72-1	Hexachloroethane C	NA	NA	NA	NA	10	NA
70-30-4	Hexachlorophene N	NA	NA	NA	NA	6	NA
1888-71-7	Hexachloropropene	NA	NA	NA	NA	NA	NA
122-66-7	Hydrazine, 1,2-diphenyl C	NA	NA	NA	NA	10	NA
193-39-5	Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	7.5	NA
78-59-1	Isophorone C	NA	NA	NA	NA	40	NA
120-58-1	Isosafrole	NA	NA	NA	NA	NA	NA
91-80-5	Methapyrilene	NA	NA	NA	NA	NA	NA
80-62-6	Methyl methacrylate N	NA	NA	NA	NA	25	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentrotion
Semivolatiles (µg/l)							
66-27-3	Methyl methanesulfonatc	NA	NA	NA	NA	NA	NA
924-16-3	N-Nitroso-di-n-butylamine C	NA	NA	NA	NA	4	NA
621-64-7	N-Nitroso-di-n-propylamine C	NA	NA	NA	NA	4	NA
55-18-5	N-Nitrosodiethylamine C	NA	NA	NA	NA	4	NA
62-75-9	N-Nitrosodimethylamine C	NA	NA	NA	NA	7.5	NA
86-30-6	N-Nitrosodiphenylamine C	NA	NA	NA	NA	7	NA
10595-95-6	N-Nitrosomethylethylamine C	NA	NA	NA	NA	7.5	NA
59-89-2	N-Nitrosomorpholine	NA	MA	NA	NA	NA	NA
100-75-4	N-Nitrosopiperidine	NA	NA	NA	MA	NA	NA
930-55-2	N-Nitrosopyrrolidine C	NA	NA	NA	NA	4	NA
91-20-3	Naphthalene N	NA	NA	NA	NA	6.8	NA
98-95-3	Nitrobenzene N	NA	NA	NA	NA	9.5	NA
123-63-7	Paraldehyde	NA	NA	NA	NA	NA	NA
608-93-5	Pentachlorobenzene N	NA	NA	NA	NA	5.6	NA
76-01-7	Pentach1oroethane	NA	NA	NA	NA	NA	NA
82-68-8	Pentachloronitrobenzene C	NA	NA	NA	NA	15	NA
87-86-5	Pentachlorophenol C	1	1	NA	NA	NA	NA
62-44-2	Phenacetin	NA	NA	NA	NA	NA	NA
85-01-8	Phenanthrene N	NA	NA	NA	NA	10	NA
108-95-2	Phenol N	NA	NA	NA	NA	10	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Semivolatile							
23950-58-5	Pronamide N	NA	NA	NA	NA	525	NA
129-00-0	Pyrm N	NA	NA	NA	NA	210	MA
110-86-1	Pyridine N	NA	NA	NA	NA	7	NA
94-59-7	Safrole	NA	NA	NA	NA	NA	NA
122-09-8	alpha, alpha-Dimethylphenethyla	NA	NA	NA	NA	NA	NA
111-91-1	bis(2-Chloroethoxy)methane	NA	NA	NA	NA	10	NA
111-44-4	bis(2-Chloroethyl)ether C	NA	NA	NA	NA	1.5	NA
117-81-7	bis(2-Ethylhexyl)phthalate (BEH C	NA	NA	NA	NA	NA	NA
95-53-4	o-Toluidine C	NA	NA	NA	NA	50	NA
60-11-7	p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA	NA
106-50-3	p-Phenylenediamine N	NA	NA	NA	NA	1,330	MA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Pesticides (µg/l)							
93-72-1	2,4,5-TP (Silvex) N	50	50	NA	NA	NA	NA
93-76-5	2,4 ,5-Trichlorophenoxyacetic ac N	NA	NA	NA	NA	NA	NA
9b-75-7	2,4-Dichlorophenoxyacetic Acid N	NA	NA	NA	MA	NA	NA
72-54-8	4,4'-DDD C	NA	NA	NA	NA	0.1	NA
72-55-9	4,4'-DDE C	NA	NA	NA	MA	0.1	WA
50-29-3	4,4'-DDT C	NA	MA	NA	NA	0.1	NA
94-82-6	4-(2,4-Dichlorophenoxy)butyric N	NA	NA	NA	MA	NA	NA
309-00-2	Aldrin C	NA	NA	NA	NA	0.05	WA
12674-11-2	Aroclor-1016 N	0.5	0.5	NA	NA	NA	NA
11104-28-2	Aroclor-1221 C	0.5	0.5	NA	NA	NA	NA
	C						
	C						
	C						
	C						
11096-82-5	Aroclor-1260 C	0.5	0.5	NA	NA	NA	NA
57-74-9	Chlordane	2	2	NA	MA	NA	NA
510-15-6	Chlorobenzilate C	NA	NA	MA	NA	0.13	NA
2303-16-4	Diallate C	NA	NA	NA	MA	0.57	NA
60-57-1	Dieldrin C	NA	NA	NA	NA	0.1	NA
60-51-5	Dimethoate N	NA	MA	NA	NA	5	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Pesticides (µg/l)							
88-85-7	Dinoseb N	7	7	NA	NA	NA	MA
298-04-4	Disulfoton N	NA	NA	NA	NA	0.5	MA
	C						
	N						
	N						
298-02-2	Phorate N	NA	NA	NA	NA	1.4	NA
3689-24-5	Sulfotep N	NA	NA	NA	NA	3.5	NA
297-97-2	Thionazin	NA	NA	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
	(µg/l						
8001-35-2	Toxaphene [C]	3	3	NA	NA	NA	NA
319-84-6	alpha-BHC [C]	NA	NA	NA	NA	0.05	NA
5103-71-9	alpha-Chlordane [C]	2	2	NA	NA	NA	NA
319-85-7	beta-BHC [C]	NA	NA	NA	NA	0.1	NA
319-86-8	delta-BHC [C]	NA	NA	NA	NA	0.05	NA
58-89-9	gamma-BHC (Lindane) [C]	0.2	0.2	NA	NA	NA	NA
5103-74-2	gamma-Chlordane [C]	2	2	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Groundwater Contaminants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
Inorganics (µg/l)							
7429-90-5	Aluminum (Al) N	NA	NA	50	200	NA	3,882.8
7440-36-0	Antimony (Sb) N	6	6	NA	NA	NA	30.2
7440-38-2	Arsenic (As) N	50	50	NA	NA	NA	2.8
7440-39-3	Barium (Ba)	2,000	2,000	NA	NA	NA	13.2
7440-41-7	Beryllium (Be) C	4	4	NA	NA	NA	1.1
7440-43-9	Cadmium (Cd) N	5	5	NA	NA	NA	3.4
7440-70-2	Calcium (Ca)	NA	NA	NA	NA	NA	17,560
7440-47-3	Chromium (Cr) N	100	100	NA	NA	NA	35
18540-29-9	Chromium (Hexavalent) N	NA	NA	NA	NA	NA	NA
7440-48-4	Cobalt (Co) N	NA	NA	NA	NA	NA	6.1
7440-50-8	Copper (Cu) N	1,300	NA	1,000	1,000	NA	16.2
57-12-5	Cyanide (CN) N	200	200	NA	NA	NA	NA
7439-89-6	Iron (Fe) N	NA	NA	300	300	NA	1,707.8
7439-92-1	Lead (Pb)	15	15	NA	NA	NA	1.6
7439-95-4	Magnesium (Mg)	NA	NA	NA	NA	NA	2,872.6
7439-96-5	Manganese (Mn) N	NA	NA	50	50	NA	22
7439-97-6	Mercury (Hg) N	2	2	NA	NA	NA	0.2
7440-02-0	Nickel (Ni) N	100	100	NA	NA	NA	39.9
7440-09-7	Potassium (K) N	NA	NA	NA	NA	NA	12,167.6

Preliminary Remediation Goals (PRGs) for Groundwater Contaninants

CAS #	Parameter	EPA MCLs	FPDWS	EPA SMCL	FSDWS	FCCG	NASP Reference Concentration
7440-22-4	Silver (Ag) N	NA	NA	100	100	NA	4
7440-23-5	Sodium (Na)	NA	160,000	NA	NA	NA	10,345
7440-28-0	Thallium (Tl)	2	2	NA	NA	NA	3.6
7440-31-5	Tin (Sn) N	NA	NA	NA	NA	NA	NA
7440-62-2	Vanadium (V) N	NA	NA	NA	MA	49	9.6
7440-66-6	Zinc (Zn) N	NA	NA	5,000	5,000	MA	153.2

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Volatila (µg/kg)				
630-20-6	1,1,1,2-Tetrachloroethane C	MA	NA	MA
811-97-2	1,1,1,2-Tetrafluoroethane	MA	NA	MA
71-55-6	1,1,1-Trich1oroethrne N	MA	NA	MA
354-58-5	1,1,1-trichlora-2,2,2-triflorom	MA	MA	MA
79-34-5	1,1,2,2-Tetrachloroethane C	MA	MA	MA
76-13-1	1,1,2-Trichloro-1,2,2- trifluor N	MA	MA	MA
79-00-5	1,1,2-Trichloroethane C	MA	NA	MA
598-77-6	1,1,2-Trichloropropane N	NA	MA	NA
75-34-3	1,1-Dichloroethane N	MA	MA	MA
75-35-4	1,1-Dichloroethylene C	MA	NA	NA
75-37-6	1,1-Difluoroethane	MA	MA	MA
96-18-4	1,2,3-Trichloropropane C	MA	NA	MA
96-19-5	1,2,3-Trichloropropene N	MA	MA	NA
615-54-3	1,2,4-Tribromobenzene N	NA	NA	NA
120-82-1	1,2,4-Trichlorobenzene N	MA	MA	MA
95-63-6	1,2,4-Trimethylbenzene N	MA	MA	MA
96-12-8	1,2-Dibromo-3-chloropropane C	MA	MA	MA
106-93-4	1,2-Dibromoethane C	MA	MA	MA
107-06-2	1,2-Dichlorocthane C	NA	MA	MA
540-59-0	1,2-Dichloroethene (total) M	MA	MA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Volatiles (µg/kg)				
156-59-2	1,2-Dichloroethylene (cis) N	NA	NA	NA
156-60-5	1,2-Dichloroethylene (trans) N	NA	NA	NA
78-87-5	1,2-Dichloropropane C	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene N	NA	NA	NA
106-99-0	1,3-Butadiene	NA	NA	NA
542-75-6	1,3-Dichloropropene C	NA	NA	NA
106-37-6	1,4-Dibromobenzene N	NA	NA	NA
764-41-0	1,4-Dichloro-2-butene	NA	NA	NA
123-91-1	1,4-Dioxane C	NA	NA	NA
75-68-3	1-Chloro-1,1-difluoroethane	NA	NA	NA
109-69-3	1-Chlorobutane N	NA	NA	NA
78-93-3	2-Butanone (MEK) N	NA	NA	NA
126-99-8	2-Chloro-1,3-butadiene N	NA	NA	NA
110-75-8	2-Chlorocthyl vinyl ether N	NA	NA	NA
75-29-6	2-Chloropropane	NA	NA	NA
591-78-6	2-Hexanone	NA	NA	NA
101-68-8	4,4'-Methylenediphenyl Isocyana	NA	NA	NA
108-10-1	4-Methyl-2-Pentanone (MIBK) N	NA	NA	NA
67-64-1	Acetone N	NA	NA	NA
75-05-8	Acetonitrile N	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

U S #	Parameter	EPA SSVs	FDEP SQAGs	MASP Reference Concentration
Volatiles (µg/kg)				
107-02-8	Acrolein [N]	NA	NA	NA
107-13-1	Acrylonitrile [C]	NA	NA	NA
107-05-1	Allyl chloride [N]	NA	NA	NA
100-52-7	Benzaldehyde [N]	NA	NA	NA
71-43-2	Benzene [C]	NA	NA	MA
100-44-7	Benzyl chloride [C]	NA	NA	NA
542-88-1	Bis(chloromethyl)ether [C]	NA	NA	NA
75-27-4	Bromodichloromethane [C]	NA	NA	NA
593-60-2	Bromoethene	NA	NA	NA
75-25-2	Bromoform [C]	NA	NA	NA
74-83-9	Bromomethane [N]	NA	NA	MA
56-23-5	Carbon Tetrachloride [C]	NA	NA	NA
75-15-0	Carbon disulfide [N]	NA	NA	MA
108-90-7	Chlorobenzene [N]	NA	NA	NA
75-45-6	Chlorodifluoromethane	NA	NA	NA
75-00-3	Chloroethane [N]	NA	NA	NA
67-66-3	Chloroform [C]	NA	NA	NA
74-87-3	Chloromethane [C]	NA	NA	NA
1476-11-5	Cis-1,4-Dichloro-2-butene	NA	NA	NA
4170-30-3	Crotonaldehyde	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentratim
Volatila (µg/kg)				
108-94-1	Cyclohexanone N	NA	NA	NA
1163-19-5	Decabromodiphenyl ether N	NA	NA	MA
124-48-1	Dibromochloromethane C	NA	NA	NA
75-71-8	Dichlorodifluoromethane N	NA	NA	NA
77-73-6	Dicyclopentadiene N	NA	NA	NA
107-12-0	Ethyl cyanide	NA	NA	NA
60-29-7	Ethyl ether N	NA	NA	MA
100-41-4	Ethylbenzene A	NA	NA	NA
87-82-1	Hexabromobenzene N	NA	YA	NA
78-83-1	Isobutanol N	NA	NA	NA
126-98-7	Methacrylonitrile N	NA	YA	NA
74-88-4	Methyl iodide	NA	NA	NA
98-83-9	Methyl styrene (alpha) N	NA	NA	NA
25013-15-4	Methyl styrene (mixture) N	NA	NA	NA
1634-04-4	Methyl tertbutyl ether (MTBE) N	NA	NA	NA
74-95-3	Methylene bromide N	NA	NA	NA
75-09-2	Methyl — chloride C	NA	NA	NA
100-42-5	Styrene N	NA	NA	NA
127-18-4	Tetrachloroethene C	NA	NA	NA
109-99-9	Ietrahydrofuran	NA	NA	NA

Preliminary Remediation Goals (PRGs) for sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
108-88-3	Toluene N	NA	NA	NA
79-01-6	Trichloroethene C	NA	NA	NA
75-69-4	frichlorofluoromethane N	NA	NA	NA
108-05-4	Vinyl acetate N	NA	NA	NA
75-01-4	Vinyl chloride C	NA	NA	MA
1330-20-7	Xylene (Total) N	NA	NA	NA
10061-01-5	cis-1,3-Dichloropropene C	NA	NA	MA
99-08-1	m-Nitrotoluene N	NA	NA	NA
108-38-3	m-Xylene N	NA	NA	NA
110-54-3	n-Hexane n	NA	NA	NA
88-n-3	o-Chloronitrobenzene C	NA	NA	NA
95-49-8	o-Chlorotolum N	NA	NA	NA
88-72-2	o-Nitrotoluene N	NA	NA	NA
95-47-6	0-Xylem N	NA	NA	NA
5216-25-1	p,a,a,a-Tetrachlorotoluene C	NA	NA	NA
100-00-5	p-Chloronitrobenzene C	NA	NA	NA
99-99-0	p-Nitrotoluene N	MA	NA	NA
106-42-3	p-Xylene	MA	NA	NA
135-98-8	sec-Butylbenzene N	NA	NA	NA
104-51-8	tert-Butylbenzene N	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Volatiles (µg/kg)				
10061-02-6	trans-1,3-Dichloropropene [C]	NA	NA	NA
110-57-6	trans-1,4-Dichloro-2-butene	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Semivolatiles (µg/kg)				
634-66-2	1,2,3,4-Tetrachlorobenzene	NA	NA	NA
634-90-2	1,2,3,5-Tetrachlorobenzene	NA	NA	WA
87-61-6	1,2,3-Trichlorobenzene	NA	NA	WA
95-94-3	1,2,4,5-Tetrachlorobenzene N	NA	NA	NA
120-82-1	1,2,4-Trichlorobenzene	NA	WA	NA
95-50-1	1,2-Dichlorobenzene N	NA	NA	NA
122-66-7	1,2-Diphenylhydrazine C	NA	NA	NA
108-70-3	1,3,5-Trichlorobenzene	NA	NA	NA
99-35-4	1,3,5-Trinitrobenzene N	NA	NA	NA
541-73-1	1,3-Dichlorobenzene N	NA	NA	NA
99-65-0	1,3-Dinitrobenzene N	NA	NA	NA
106-46-7	1,4-Dichlorobenzene C	NA	NA	NA
130-15-4	1,4-Naphthoquinone	NA	NA	NA
90-13-1	1-Chloronapthalene	WA	NA	NA
90-12-0	1-Methylnaphthalene N	NA	NA	WA
134-32-7	1-Naphthylamine	NA	NA	NA
108-60-1	2,2'-oxybis(1-Chloropropane)	NA	NA	NA
58-90-2	2,3,4,6-Tetrachlorophenol N	NA	NA	NA
95-95-4	2,4,5-Trichlorophenol N	NA	NA	NA
88-06-2	2,4,6-Trichlorophenol C	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
120-83-2	2,4-Dichlorophenol [N]	NA	NA	NA
105-67-9	2,4-Dimethylphenol [N]	NA	NA	NA
51-28-5	2,4-Dinitrophenol [N]	NA	NA	NA
121-14-2	2,4-Dinitrotoluene [N]	NA	NA	NA
87-65-0	2,6-Dichlorophenol [N]	NA	NA	NA
606-20-2	2,6-Dinitrotoluene [N]	NA	NA	NA
91-58-7	2-Chloronaphthalene [N]	NA	NA	NA
95-57-8	2-Chlorophenol [N]	NA	NA	NA
99-55-8	2-Methyl-5-nitroaniline [C]	NA	NA	NA
95-53-4	2-Methylmi1ine [C]	NA	NA	NA
636-21-5	2-Methylaniline hydrochloride [C]	NA	NA	NA
91-57-6	2-Methylnaphthalene [N]	330	20.2	NA
95-48-7	2-Methylphenol (o-Cresol) [N]	NA	NA	NA
91-59-8	2-Naphthylamine [C]	NA	NA	NA
88-74-4	2-Nitroaniline [N]	NA	NA	NA
88-75-5	2-Nitrophenol [N]	NA	NA	NA
109-06-8	2-Picoline	NA	NA	NA
91-94-1	3,3'-Dichlorobenzidine [C]	NA	NA	NA
119-90-4	3,3'-Dimethoxybenzidine [C]	NA	NA	NA
119-93-7	3,3'-Dimethylbenzidine [C]	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Semivolatiles (µg/kg)				
56-49-5	3-Mcthylcholmthrm	MA	MA	NA
108-39-4	3-Methylphenol (m-Cresol)	MA	MA	MA
99-09-2	3-Nitroaniline N	MA	MA	MA
101-14-4	4,4'-Methylene bis(2-chloroanil C	MA	MA	MA
534-52-1	4,6-Dinitro-2-methylphenol	MA	MA	MA
92-67-1	4-Aminobiphenyl	NA	MA	MA
101-55-3	4-Bromophenyl-phenylether N	MA	MA	MA
59-50-7	4-Chloro-3-methylphenol	MA	MA	MA
106-47-8	4-Chloromiline N	NA	MA	MA
7005-72-3	4-Chlorophenyl-phenylether	MA	NA	MA
106-44-5	4-Methylphenol (p-Cresol)	MA	MA	MA
100-01-6	4-Nitroaniline N	MA	MA	MA
100-02-7	4-Mitrophenol N	MA	MA	MA
56-57-5	4-Nitroquinoline 1-oxide	MA	MA	MA
57-97-6	7,12-Dimethybenz(a)anthracene	NA	NA	MA
83-32-9	Acenaphthene N	330	6.71	MA
208-%-E	Acenaphthylene	330	5.87	MA
53-%-3	Acetamidof1uorene	MA	MA	MA
98-86-2	Acetophenone N	MA	MA	NA
62-53-3	Aniline	MA	NA	MA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Semivolatiles (µg/kg)				
120-12-7	Anthracene N	330	46.9	NA
140-57-8	Aramite C	MA	WA	WA
103-33-3	Azobenzene C	MA	NA	NA
98-87-3	Benzal chloride	WA	WA	NA
92-87-5	Benzidine C	MA	NA	MA
56-55-3	Benzo(a)anthracene	330	74.8	NA
	N			
	N			
	C			
85-68-7	Butylbenzylphthalate N	WA	MA	MA
86-74-8	Carbazole	WA	NA	NA
218-01-9	Chrysene	330	108	NA
6055-19-2	Cyclophosphamide	WA	MA	NA
84-74-2	Di-n-butylphthalate N	MA	WA	WA
117-84-0	Di-n-octyl phthalate N	NA	WA	WA

Preliminary Remediation Goals (PRGS) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
53-70-3	Dibenz(a,h)anthracene	330	6.22	NA
224-42-0	Dibenzo(a,j)acridine	NA	NA	NA
132-64-9	Dibenzofuran N	NA	NA	NA
84-66-2	Diethylphthalate N	NA	NA	NA
131-11-3	Dimethyl phthalate N	NA	NA	NA
122-39-4	Diphenylamine N	WA	NA	NA
97-63-2	Ethyl methacrylate N	NA	MA	NA
62-50-0	Ethyl methanesulfonate	NA	MA	NA
206-44-0	Fluoranthene N	330	113	MA
86-73-7	Fluorene N	330	21.2	MA
118-74-1	Hexachlorobenzene C	NA	NA	MA
87-68-3	Hexachlorobutadiene C	MA	MA	MA
77-47-4	Hexachlorocyclopentadiene N	MA	NA	NA
67-72-1	Hexachloroethane C	MA	NA	NA
70-30-4	Hexachlorophene N	NA	NA	NA
1888-71-7	Hexachloropropene	NA	NA	NA
193-39-5	Indeno(1,2,3-cd)pyrene	MA	NA	NA
78-59-1	Isophorone C	NA	NA	NA
120-58-1	Isosafrole	NA	NA	NA
91-80-5	Methapyrilene	NA	NA	MA

Preliminary Remediation Goals (PRGS) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Semivolatiles (µg/kg)				
80-62-6	Methyl methacrylate[N]	NA	NA	NA
66-27-3	Methyl methanesulfonate	NA	NA	NA
10595-95-6	N-Nitroso-N-methylethylamine[C]	NA	NA	NA
621-64-7	N-Nitroso-di-n-propylamine[C]	NA	NA	NA
924-16-3	N-Nitrosodi-n-butylamine[C]	NA	NA	NA
55-18-5	N-Nitrosodiethylamine[C]	NA	NA	NA
62-75-9	N-Mitrosodimethylamine[C]	NA	NA	NA
86-30-6	N-Hitrosodiphenylamine[C]	NA	HA	NA
59-89-2	N-Nitrosomorpholine	NA	NA	NA
100-75-4	N-Nitrosopiperidine	NA	NA	NA
930-55-2	N-Nitrosopyrrolidine[C]	NA	NA	NA
91-20-3	Naphthalene[n]	330	34.6	NA
98-95-3	Nitrobenzene[N]	NA	NA	NA
123-63-7	Paraldehyde	NA	NA	NA
608-93-5	Pentachlorobenzene[N]	MA	NA	NA
76-01-7	Pentachloroethane	NA	NA	MA
82-68-8	Pentachlormitrobenzene[C]	NA	NA	NA
87-86-5	Pentachlorophenol[C]	NA	NA	NA
62-44-2	Phenacetin	NA	NA	NA
85-01-8	Phenanthrene[N]	330	86.7	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Semivolatiles (µg/kg)				
108-95-2	Phenol [N]	MA	MA	MA
23950-58-5	Pronamide [N]	MA	NA	NA
129-00-0	Pyrene [N]	330	153	MA
110-86-1	Pyridine [N]	MA	NA	NA
94-59-7	Safrole	NA	WA	NA
122-09-8	alpha, alpha-Dimethylphenethyla	MA	MA	NA
111-91-1	bis(2-Chloroethoxy)methane	MA	MA	MA
111-44-4	bis(2-Chloroethyl)ether [C]	MA	MA	NA
117-81-7	bis(2-Ethylhexyl)phthalate (BEH [C]	182	182	WA
60-11-7	p-Dimethylaminoazobenzene	MA	MA	NA
106-50-3	p-Phenylenediamine [N]	NA	NA	MA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Pesticides (µg/kg)				
93-76-5	2,4,5-Trichlorophenoxyacetic ac [N]	NA	NA	NA
94-75-7	2,4-Dichlorophenoxyacetic Acid [N]	NA	NA	NA
93-72-1	2-(2,4,5-Trichlorophenoxy)propi [N]	NA	NA	NA
72-54-8	4,4'-DDD [C]	3.3	1.22	NA
72-55-9	4,4'-DDE [C]	3.3	2.07	NA
50-29-3	4,4'-DDT [C]	3.3	1.19	NA
94-82-6	4-(2,4-Dichlorophenoxy)butyric [N]	NA	NA	NA
309-00-2	Aldrin [C]	NA	NA	NA
12674-11-2	Aroclor-1016 [N]	33	21.6	NA
11104-28-2	Aroclor-1221 [C]	21.6	67	NA
11141-16-5	Aroclor-1232 [C]	21.6	33	NA
53469-21-9	Aroclor-1242 [C]	21.6	33	NA
12672-29-6	Aroclor-1248 [C]	21.6	33	NA
11097-69-1	Aroclor-1254 [N]	21.6	33	NA
11096-82-5	Aroclor-1260 [C]	21.6	33	NA
57-74-9	Chlordane [C]	1.7	2.26	NA
510-15-6	Chlorobenzilate [C]	NA	NA	NA
2303-16-4	Diallate [C]	NA	NA	NA
60-57-1	Dieldrin [C]	3.3	0.715	NA
60-51-5	Dimethoate [N]	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Pesticides (µg/kg)				
88-85-7	Dinoseb N	NA	NA	NA
298-04-4	Disulfoton N	NA	NA	NA
959-98-8	Endosulfan I N	NA	WA	NA
33213-65-9	Endosulfan II N	NA	WA	NA
1031-07-8	Endosulfan sulfate W	NA	NA	NA
72-20-8	Endrin N	3.3	NA	NA
7421-93-4	Endrin aldehyde N	3.3	WA	NA
53494-70-5	Endrin ketone N	3.3	WA	NA
52-85-7	Famphur	NA	NA	NA
76-44-8	Heptachlor C	NA	NA	NA
1024-57-3	Heptachlor epoxide C	NA	WA	NA
465-73-6	Isodrin P	NA	NA	NA
143-50-0	Kepone C	NA	NA	NA
72-43-5	Ucthoxychlor N	NA	NA	NA
298-00-0	Methyl parathion N	NA	WA	NA
126-68-1	O,O,O-Triethylphosphorothioate	NA	NA	NA
56-38-2	Parathion N	NA	NA	NA
298-02-2	Phorate N	NA	NA	NA
3689-24-5	Tetraethyldithiopyrophosphate N	NA	NA	NA
297-97-2	Thionazin	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Pesticides (µg/kg)				
8001-35-2	Toxaphene C	NA	NA	NA
319-84-6	alpha-BHC C	NA	NA	NA
5103-71-9	alpha-Chlordane C	NA	MA	NA
319-85-7	beta-BHC C	NA	NA	NA
319-86-8	delta-BHC C	MA	NA	NA
58-89-9	gamma-BHC (Lindane) C	3.3	0.32	NA
5103-74-2	gamma-Chlordane C	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Sediment Contaminants

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Inorganics (mg/kg)				
	N			
	N			
	N			
	N			
7439-95-4	Magnesium (Mg)	NA	NA	NA
7439-96-5	Manganese (Mn) N	NA	NA	NA
7439-97-6	Mercury (Hg) N	0.13	0.13	NA
7440-02-0	Nickel (Ni) N	15.9	15.9	NA
7440-09-7	Potassium (K)	NA	NA	NA
7782-49-2	Selenium (Se) N	NA	NA	NA

CAS #	Parameter	EPA SSVs	FDEP SQAGs	NASP Reference Concentration
Inorganics (mg/kg)				
7440-22-4	Silver (Ag) [N]	2	0.733	NA
7440-23-5	Sodium (Na)	NA	MA	NA
7440-28-0	Thallium (Tl)	NA	NA	NA
7440-31-5	Tin (Sn) [N]	NA	NA	MA
7440-62-2	Vanadium (V) [N]	NA	NA	NA
7440-66-6	Zinc (Zn) [N]	124	124	MA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	MASP Reference Concentration
Volatiles (µg/kg)						
106-93-4	1, 2-Dibromoethane C	75	0.18	10	0.06	MA
630-20-6	1,1,1,2-Tetrachloroethane C	25,000	NA	5,900	3	MA
811-97-2	1,1,1,2-Tetrafluoroethane	NA	NA	NA	NA	NA
71-55-6	1,1,1-Trichloroethane N	270,000	900	610,000	900	NA
354-58-5	1,1,1-trichloro-2,2,2-trifloromethane	NA	NA	NA	NA	NA
79-34-5	1,1,2,2-Tetrachloroethane C	3,200	1	900	0.7	NA
79-00-5	1,1,2-Trichloroethane C	11,OW	10	2,000	20	NA
75-34-3	1,1-Dichloroethane N	780,000	11,000	310,000	2,300	NA
75-35-4	1,1-Dichloroethene C	1,100	30	100	30	YA
96-18-4	1,2,3-Trichloropropane C	91	0.006	NA	NA	NA
96-19-5	1,2,3-Trichloropropene N	39,000	MA	NA	NA	MA
615-54-3	1,2,4-Tribromobenzene N	39,000	MA	NA	NA	NA
120-82-1	1,2,4-Triehlorobenzene N	78,000	2,000	590,000	2,300	NA
96-12-8	1,2-Dibromo-3-Chloropropane C	460	0.61	NA	NA	NA
107-06-2	1,2-Dichloroethane C	7, OW	10	700	8	NA
540-59-0	1,2-Dichloroethene (total) N	70,000	NA	NA	NA	NA
78-87-5	1,2-Dichloropropane C	9,400	20	800	20	NA
106-99-0	1,3-Butadiene	NA	0.072	NA	MA	NA
542-75-6	1,3-Dichloropropene C	3,700	1	300	3	NA
106-37-6	1,4-Dibromobenzene N	78,000	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP for Leaching	NASP Refer —— Concentration
Volatiles (µg/kg)						
764-41-0	1,4-Dichloro-2-butene	NA	NA	NA	NA	NA
123-91-1	1,4-Dioxane C	58,000	NA	NA	NA	NA
75-68-3	1-Chloro-1,1-difluoroethane	NA	NA	NA	NA	NA
109-69-3	1-Chlorobutane N	3,100,000	NA	NA	NA	NA
78-93-3	2-Butanone (MEK) N	4,700,000	NA	2,200,000	8,700	NA
126-99-8	2-Chloro-1,3-butadiene N	160,000	NA	NA	NA	NA
110-75-8	2-Chloroethyl vinyl ether N	200,000	NA	100,000	2	NA
591-78-6	2-Hexanone	NA	NA	NA	NA	NA
101-68-8	4,4'-Methylenediphenyl isocyanate	NA	NA	NA	NA	NA
108-10-1	4-Methyl-2-Pentanone (MIBK) N	630,000	NA	520,000	1,100	NA
67-64-1	Acetone N	780,000	8,000	260,000	1,400	NA
75-05-8	Acetonitrile N	47,000	NA	NA	NA	NA
107-02-8	Acrolein N	160,000	NA	400	300	NA
107-13-1	Acrylonitrile C	1,200	NA	100	20	NA
107-05-1	Allyl chloride N	390,000	NA	NA	NA	NA
100-52-7	Benzaldehyde N	780,000	NA	NA	NA	NA
71-43-2	Benzene C	22,000	20	1,400	3	NA
95-63-6	Benzene, 1,2,4-trimethyl N	390,000	NA	6,200	200	NA
108-67-8	Benzene, 1,3,5-trimethyl- N	390,000	NA	3,700	100	NA
100-44-7	Benzyl chloride C	3,800	0.36	NA	NA	NA

Preliminary Remediation Goals (PRGs) for soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Volatiles (µg/kg)						
542-88-1	Bis(chloromethyl)ether [C]	2.9	0.0001	NA	NA	NA
75-27-4	Bromodichloromethane [C]	10,000	300	700	2	NA
593-60-2	Bromoethene	NA	NA	NA	NA	NA
75-25-2	Bromoform [C]	81,000	500	65,000	20	NA
74-a-9	Bromomethane [N]	11,000	100	NA	NA	NA
75-15-0	Carbon disulfide [N]	780,000	14,000	5,200	2,500	NA
56-23-5	Carbon tetrachloride	4,900	30	600	20	MA
108-90-7	Chlorobenzene [N]	160,000	600	44,000	600	NA
75-45-6	Chlorodifluoromethane	NA	NA	NA	NA	NA
75-00-3	Chloroethane [N]	3,100,000	33,000	NA	NA	NA
67-66-3	Chloroform	100,000	300	680	20	NA
74-87-3	Chloromethane	49,000	6.6	200	10	NA
1476-11-5	Cis-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA
123-73-9	Crotonaldehyde, (E)	340	MA	NA	NA	NA
108-94-1	Cyclohexanone	39,000,000	MA	NA	NA	MA
1163-19-5	Decabromodiphenyl ether [N]	78,000	NA	NA	NA	NA
124-48-1	Dibromochloromethane	NA	NA	1,200	4	NA
75-71-8	Dichlorodifluoromethane [N]	1,600,000	7,500	NA	NA	NA
77-73-6	Dicyclopentadiene [N]	230,000	NA	NA	NA	NA
107-12-0	Ethyl cyanide	NA	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Soil contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	MASP Reference Concentration
Volatiles (µg/kg)						
60-29-7	Ethyl ether N	1,600,000	NA	HA	NA	NA
100-41-4	Ethylbenzene N	780,000	5,000	1,400,000	200	NA
87-82-1	Hexabromobenzene N	16,000	NA	NA	NA	NA
78-83-1	Isobutanol N	2,300,000	NA	HA	NA	WA
126-98-7	Methacrylonitrile N	ND	NA	NA	NA	NA
74-1-4	Methyl iodide	NA	NA	NA	NA	MA
1634-04-4	Methyl tert-butyl ether N	39,000	NA	3,800,000	100	NA
74-95-3	Methylene bromide N	78,000	NA	NA	NA	NA
75-09-2	Methylene chloride C	85,000	10	16,000	10	NA
100-42-5	Styrene N	1,600,000	2,000	4,100,000	2,000	NA
127-18-4	Tetrachloroethene C	12,000	40	12,000	30	NA
109-99-9	Tetrahydrofuran	NA	NA	NA	NA	NA
108-88-3	Toluene N	1,600,000	5,000	520,000	200	NA
79-01-6	Trichloroethene C	58,000	20	6,500	10	NA
75-69-4	Trichlorofluoromethane N	2,300,000	13,000	6,600	400,000	NA
598-77-6	Trichloropropane, 1,1,2- N	39,000	140	NA	NA	NA
76-13-1	Trichlorotrifluoroethane (Freon 113) N	100,000,000	3,100,000	NA	NA	NA
108-05-4	Vinyl acetate N	7,800,000	84,000	180,000	500	NA
75-01-4	Vinyl chloride C	340	10	5	5	NA
1330-20-7	Xylene (Total) N	16,000,000	74,000	13,000,000	100	WA

Preliminary Remediation Goals (PRGs) for Soil contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Volatiles (µg/kg)						
98-83-9	alpha-Methylstyrene [N]	550,000	7,500	NA	MA	NA
156-59-2	cis-1,2-Dichloroethene [N]	78,000	200	26,000	200	NA
10061-01-5	cis-1,3-Dichloropropene [C]	3,700	1	300	3	NA
99-08-1	m-Nitrotoluene [N]	78,000	420	NA	NA	NA
108-38-3	m-Xylene	16,000,000	240,000	NA	NA	NA
104-51-8	n-Butylbenzene [N]	78,000	270	NA	NA	NA
110-54-3	n-Hexane [N]	470,000	13,000	76,000	1,000	NA
88-73-3	o-Chloronitrobenzene [C]	26,000	NA	MA	NA	NA
95-49-8	o-Chlorotoluene [N]	160,000	5,600	MA	NA	NA
88-72-2	o-Nitrotoluene [N]	78,000	b20	NA	NA	NA
95-47-6	o-Xylene [N]	16,000,000	150,000	NA	NA	NA
5216-25-1	p,a,a,a-Tetrachlorotoluene [C]	32	NA	NA	NA	NA
100-00-5	p-Chloronitrobenzene [C]	35,000	NA	MA	NA	NA
99-99-0	p-Nitrotoluene [N]	78,000	420	NA	NA	NA
106-42-3	p-Xylene	NA	220,000	NA	NA	NA
135-98-8	sec-Butylbenzene [N]	78,000	270	MA	NA	NA
156-60-5	trans-1,2-Dichloroethene [N]	160,000	300	62,000	300	NA
10061-02-6	trans-1,3-Dichloropropene [C]	3,700	1	300	3	NA
110-57-6	trans-1,4-Dichloro-2-butene	MA	MA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Semivolatiles (µg/kg)						
634-66-2	1,2,3,4-Tetrachlorobenzene N	2,300	690	NA	NA	NA
634-90-2	1,2,3,5-Tetrachlorobenzene N	2,300	690	NA	NA	NA
87-61-6	1,2,3-Trichlorobenzene N	78,000	2,000	NA	NA	NA
95-94-3	1,2,4,5-Tetrachlorobenzene N	2,300	690	NA	NA	NA
120-82-1	1,2,4-Trichlorobenzene N	78,000	2,000	590,000	2,300	NA
95-50-1	1,2-Dichlorobenzene N	700,000	6,000	820,000	5,800	NA
122-66-7	1,2-Diphenylhydrazine C	800	NA	NA	NA	NA
108-70-3	1,3,5-Trichlorobenzene N	78,000	2,000	590,000	2,300	NA
99-35-4	1,3,5-Trinitrobenzene N	390	NA	NA	NA	NA
541-73-1	1,3-Dichlorobenzene N	700,000	NA	1,700,000	400	NA
99-65-0	1,3-Dinitrobenzene N	780	NA	NA	NA	NA
106-46-7	1,4-Dichlorobenzene C	27,000	1,000	7,500	900	NA
130-15-4	1,4-Naphthoquinone	NA	NA	NA	NA	NA
90-13-1	1-Chloronaphthalene N	630,000	140,000	560,000	57,000	NA
90-12-0	1-Methyl naphthalene N	NA	NA	930,000	NA	NA
134-32-7	1-Naphthylamine	NA	Ma	NA	NA	NA
108-60-1	2,2'-oxybis(1-Chloropropene)	NA	NA	NA	NA	NA
58-90-2	2,3,4,6-Tetrachlorophenol N	230,000	NA	NA	NA	NA
95-95-4	2,4,5-Trichlorophenol N	780,000	120,000	7,100,000	100	NA
88-06-2	2,4,6-Trichlorophenol C	58,000	60	87,000	80	YA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Semivolatiles (µg/kg)						
120-83-2	2,4-Dichlorophenol [N]	23,000	500	220,000	20	NA
105-67-9	2,4-Dimethylphenol [N]	160,000	3,000	1,200,000	1,800	NA
51-28-5	2,4-Dinitrophenol [N]	16,000	100	NA	NA	NA
121-14-2	2,4-Dinitrotoluene [N]	16,000	200	130,000	0.6	NA
87-65-0	2,6-Dichlorophenol [N]	23,000	500	220,000	20	NA
606-20-2	2,6-Dinitrotoluene [N]	7,800	100	71,000	0.6	NA
91-58-7	2-Chloronaphthalene [N]	630,000	140,000	560,000	57,000	NA
95-57-8	2-Chlorophenol [N]	39,000	2,000	280,000	300	NA
99-55-8	2-Methyl-5-nitroaniline [C]	19,000	NA	NA	NA	NA
95-53-4	2-Methylaniline [C]	2,700	NA	NA	NA	NA
636-21-5	2-Methylaniline hydrochloride [C]	3,500	NA	NA	NA	NA
91-57-6	2-Methylnaphthalene [N]	NA	NA	960,000	NA	NA
95-48-7	2-Methylphenol (o-Cresol) [N]	390,000	6,000	2,600,000	1,100	NA
91-59-8	2-Naphthylamine [C]	4.9	NA	NA	NA	NA
88-74-4	2-Nitroaniline [N]	470	NA	4,000	20	NA
88-75-5	2-Nitrophenol [N]	480	NA	NA	NA	NA
109-06-8	2-Picoline	NA	NA	NA	NA	NA
91-94-1	3,3'-Dichlorobenzidine [C]	1,400	10	NA	NA	NA
119-90-4	3,3'-Dimethoxybenzidine [C]	46,000	NA	HA	NA	NA
119-93-7	3,3-Dimethylbenzidine [C]	69	0.39	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Semivolatiles (µg/kg)						
56-49-5	3-Methylcholanthrene	NA	NA	NA	NA	NA
108-39-4	3-Methylphenol (m-Cresol) N	390,000	NA	3,400,000	4,200	NA
99-09-2	3-Nitroaniline N	23,000	NA	NA	NA	NA
101-14-4	4,4'-Methylene bis(2-chloroaniline) C	4,900	NA	NA	NA	NA
534-52-1	4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA
92-67-1	4-Aminobiphenyl	NA	NA	HA	HA	NA
101-55-3	4-Bromophenyl-phenylether N	450,000	NA	MA	NA	NA
59-SO-7	4-Chloro-3-methylphenol	MA	NA	140,000,000	42,000	NA
106-47-8	4-Chloroaniline N	31,000	300	240,000	80	NA
7005-72-3	4-Chlorophenyl-phenylether	NA	NA	NA	NA	NA
106-44-5	4-Methylphenol (p-Cresol) N	39,000	NA	340,000	400	NA
100-01-6	4-Nitroaniline N	23,000	HA	230,000	NA	NA
100-02-7	4-Nitrophenol N	400,000	NA	NA	NA	NA
56-57-5	4-Nitroquinoline 1-oxide	NA	NA	NA	NA	NA
57-97-6	7,12-Dimethylbenz(a)anthracene C	NA	MA	NA	NA	NA
83-32-9	Acenaphthene N	470,000	200,000	2,800,000	2,000	NA
208-96-8	Acenaphthylene N	470,000	200,000	670,000	11,000	NA
53-96-3	Acetamidofluorene N	MA	NA	NA	NA	NA
98-86-2	Acetophenone	780,000	NA	HA	MA	NA
62-53-3	Aniline C	110,000	31	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Semivolatiles (µg/kg)						
120-12-7	Anthracene [N]	2,300,000	4,300,000	20,000,000	890,000	NA
140-57-8	Aramite [C]	26,000	NA	NA	NA	NA
103-33-3	Azobenzene [C]	5,800	NA	NA	NA	NA
98-87-3	Benzal chloride	NA	NA	NA	NA	NA
92-87-5	Benzidine [C]	2.8	0.0011	NA	NA	NA
56-55-3	Benzo(a)anthracene [C]	880	700	1,400	29,000	NA
50-32-8	Benzo(a)pyrene [C]	88	4,000	100	3,700	NA
205-99-2	Benzo(b)fluoranthene [C]	880	4,000	1,400	71,000	NA
191-24-2	Benzo(g,h,i)perylene [N]	230,000	1,400,000	14,000	320,000	NA
207-08-9	Benzo(k)fluoranthene [C]	8,800	4,000	14,000	44,000	NA
65-85-0	Benzoic acid [N]	31,000,000	280,000	130,000,000	56,000	NA
98-07-7	Benzotrichloride [C]	49	0.073	NA	NA	NA
100-51-6	Benzyl alcohol [N]	2,300,000	NA	NA	NA	NA
39638-32-9	Bis(2-Chloroisopropyl)Ether [C]	9,100	NA	NA	NA	NA
85-68-7	Butylbenzylphthalate [N]	1,600,000	[illegible]	15,000,000	960,000	NA
86-74-8	Carbazole [C]	32,000	[illegible]	42,000	400	NA
218-01-9	Chrysene [C]	88,000	[illegible]	140,000	31,000	NA
6055-19-2	Cyclophosphamide	NA	NA	NA	NA	NA
84-74-2	Di-n-butylphthalate [N]	780,000	120,000	7,300,000	23,000	NA
117-84-0	Di-n-octyl phthalate [N]	160,000	1,000,000,000	1,500,000	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Semivolatiles (µg/kg)						
53-70-3	Dibenz(a,h)anthracene C	88	11,000	100	7,200	NA
224-42-0	Dibenzo(a,j)acridine	NA	NA	NA	NA	NA
132-64-9	Dibenzofuran N	31,000	120,000	240,000	NA	MA
84-66-2	Diethylphthalate N	6,300,000	110,000	56,000,000	20,000	MA
131-11-3	Dimethyl phthalate N	78,000,000	1,200,000	630,000,000	200,000	NA
122-39-4	Diphenylamine N	200,000	NA	NA	NA	NA
97-63-2	Ethyl methacrylate N	700,000	NA	NA	NA	NA
62-50-0	Ethyl methanesulfonate	NA	NA	NA	NA	NA
206-44-0	Fluoranthene N	310,000	980,000	2,900,000	280,000	NA
86-73-7	Fluorene N	310,000	160,000	2,400,000	45,000	NA
118-74-1	Hexachlorobenzene C	400	800	600	800	NA
87-68-3	Hexachlorobutadiene C	8,200	100	3,100	2,100	NA
77-47-4	Hexachlorocyclopentadiene N	55,000	10,000	NA	NA	NA
67-72-1	Hexachloroethane C	46,000	200	27,000	400	NA
70-30-4	Hexachlorophene N	2,300	HA	NA	NA	NA
1888-71-7	Hexachloropropene	NA	HA	NA	NA	NA
193-39-5	Indeno(1,2,3-cd)pyrene C	880	35,000	1,400	17,000	NA
78-59-1	Isophorone C	670,000	200	NA	NA	NA
120-58-1	Isosafrole	NA	NA	NA	NA	NA
91-80-5	Methapyrilene	NA	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Semivolatiles (µg/kg)						
80-62-6	Methyl methacrylate [N]	630,000	NA	NA	NA	NA
66-27-3	Methyl methanesulfonate	NA	NA	NA	NA	NA
10595-95-6	N-Nitroso-N-methylethylamine [C]	29	NA	NA	NA	NA
621-64-7	N-Nitroso-di-n-propylamine [C]	91	0.02	20	9	NA
924-16-3	N-Nitrosodi-n-butylamine [C]	120	NA	NA	NA	NA
55-18-5	N-Nitrosodiethylamine [C]	4.3	NA	NA	NA	NA
62-75-9	N-Nitrosodimethylamine [C]	13	NA	3	20	NA
86-30-6	N-Nitrosodiphenylamine [C]	130,000	200	73,000	60	NA
59-89-2	N-Nitrosomorpholine	NA	NA	NA	NA	NA
100-75-4	N-Nitrosopiperidine	NA	NA	NA	NA	NA
930-55-2	N-Nitrosopyrrolidine [C]	300	NA	NA	NA	NA
91-20-3	Naphthalene [N]	310,000	30,000	1,300,000	100	NA
98-95-3	Nitrobenzene [N]	3,900	90	22,000	40	NA
123-63-7	Paraldehyde	NA	NA	NA	NA	NA
608-93-5	Pentachlorobenzene [N]	6,300	48,000	NA	NA	NA
76-01-7	Pentachloroethane	NA	NA	NA	NA	NA
82-68-8	Pentachloronitrobenzene [C]	2,500	NA	NA	NA	NA
87-86-5	Pentachlorophenol [C]	5,300	200	5,400	10	NA
62-44-2	Phenacetin	NA	NA	NA	NA	NA
85-01-8	Phenanthrene [N]	230,000	1,400,000	1,700,000	2,800	NA

Preliminary Remediation Goals (PRGs) for soil contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Semivolatiles (µg/kg)						
108-95-2	Phenol [N]	4,700,000	49,000	34,000,000	20	NA
23950-58-5	Pronamide [N]	590,000	NA	NA	NA	NA
129-00-0	Pyrene [N]	230,000	1,400,000	2,200,000	290,000	WA
110-86-1	Pyridine	7,100	NA	500	20	NA
94-59-7	Safrole	NA	NA	NA	NA	NA
122-09-8	alpha, alpha-Dimethylphenethylamine	NA	HA	NA	NA	WA
111-91-1	bis(2-Chloroethoxy)methane	NA	NA	170,000	30	NA
111-44-4	bis(2-Chloroethyl)ether [C]	580	0.3	500	5	NA
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP) [C]	46,000	11,000	48,000	11,000	NA
60-11-7	p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA
106-50-3	p-Phenylenediamine [N]	1,500,000	NA	an	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Pesticides (µg/kg)						
93-76-5	2,4,5-T N	76,000	NA	NA	NA	NA
93-72-1	2,4,5-TP (Silvex) N	63,000	NA	NA	NA	MA
94-75-7	2,4-D N	78,000	1,700	NA	NA	NA
94-82-6	2,4-DB N	63,000	NA	NA	NA	NA
72-54-8	4,4'-DDD C	2,700	700	4,500	200	NA
72-55-9	4,4'-DDE C	1,900	500	3,000	200	NA
50-29-3	4,4'-DDT C	1,900	1,000	3,100	500	NA
SOP-00-2	Aldrin C	38	5	60	50	NA
12674-11-2	Aroclor-1016 N	550	NA	NA	NA	NA
11104-28-2	Aroclor-1221 C	83	NA	900	44,000	NA
11141-16-5	Areelor-1232 C	83	NA	900	44,000	NA
53469-21-9	Aroclor-1242 C	83	NA	900	44,000	NA
12672-29-6	Ardor-1268 C	83	NA	900	44,000	NA
11097-69-1	Aroclor-1254 N	83	NA	900	44,000	NA
11096-82-5	Aroclor-1260 C	83	NA	900	44,000	NA
57-74-9	Chlordane C	490	2,000	800	2,100	NA
510-15-6	Chlorobenzilate C	2,400	NA	NA	NA	NA
2303-16-4	Diallate C	10,000	NA	NA	NA	NA
60-57-1	Dieldrin C	40	1	70	20	NA
60-51-5	Dimethoate N	1,600	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Pesticides (µg/kg)						
88-85-7	Dinoseb [N]	7,800	NA	43,000	400	NA
298-04-4	Disulfoton [N]	310	NA	2,800	10	NA
959-98-8	Endosulfan I [N]	47,000	3,000	390,000	700	NA
33213-65-9	Endosulfan II [N]	47,000	3,000	390,000	700	NA
1031-07-8	Endosulfan sulfate [N]	47,000	3,000	390,000	700	NA
72-20-8	Endrin [N]	2,300	400	23,000	400	NA
7421-93-4	Endrin aldehyde [N]	2,300	400	23,000	50	NA
53494-70-5	Endrin ketone [N]	2,300	400	23,000	400	NA
52-85-7	Famphur	HA	NA	NA	NA	NA
76-44-8	Heptachlor [C]	140	60	200	60	NA
1024-57-3	Heptachlor epoxide [C]	70	30	100	30	NA
465-73-6	Isodrin [P]	NA	NA	NA	NA	NA
143-50-0	Kepone [C]	35	NA	NA	NA	NA
72-43-5	Methoxychlor [N]	39,000	62,000	380,000	62,000	NA
298-00-0	Methyl parathion	2,000	41	19,000	100	NA
126-68-1	O,O,O-Triethylphosphorothioate	NA	NA	NA	NA	NA
56-38-2	Parathion [N]	47,000	3,900	450,000	3,900	NA
298-02-2	Phorate [N]	1,600	NA	14,000	50	NA
3689-24-5	Sulfotep [N]	3,900	NA	NA	NA	NA
297-97-2	Thionazin	NA	NA	NA	NA	NA

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Pesticides (µg/kg)						
8001-35-2	Toxaphene [C]	580	40	900	40	NA
319-84-6	alpha-BHC [C]	100	0.4	200	2	NA
5103-71-9	alpha-Chlordane [C]	490	2,000	800	2,100	NA
319-85-7	beta-BHC [C]	350	2	600	5	NA
319-86-8	delta-BHC [C]	NA	NA	23,000	7	NA
58-89-9	gamma-BHC (Lindane) [C]	490	6	800	6	NA
5103-74-2	gamma-Chlordane [C]	490	2,000	800	2,100	NA

Preliminary Remediation Goals (PRGs) for Soil contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Inorganics (mg/kg)						
7429-90-5	Aluminum (Al) N	7,800	NA	75,000	NA	3,833.36
7440-36-0	Antimony (Sb) N	3.1	NA	26	NA	9.49
7440-38-2	Arsenic (As)	0.43	15	0.7	NA	1.56
7448-39-3	Barium (Ba) N	550	32	5,200	NA	4.63
7440-41-7	Beryllium (Be)	0.15	180	0.2	NA	0.41
7440-42-8	boron	700	MA	7,000	NA	NA
7440-43-9	Cadmium (Cd) N	3.9	6	37	NA	1
7440-70-2	Calcium (Ca)	NA	NA	NA	NA	912.37
7440-47-3	Chromium (Cr) N	7,800	NA	66,000	NA	6.13
18540-29-9	Chromium (Hexavalent) N	39	19	290	NA	NA
7440-48-4	Cobalt (Co)	470	NA	4,700	HA	1.87
7440-50-8	Copper (Cu)	310	NA	NA	MA	5.74
57-12-5	Cyanide (CN) N	160	NA	1,600	NA	0.52
7439-89-6	Iron (Fe) N	2,300	M	NA	NA	2,745
7439-92-1	Lead (Pb)	400	NA	500	NA	7.32
7439-95-4	Magnesium (Mg)	NA	NA	NA	NA	133.33
7439-96-5	Manganese (Mn) N	180	NA	370	NA	21.36
7439-97-6	Mercury (Hg) N	2.3	3	23	NA	0.1
7439-98-7	Molybdenum (Mo)	39	NA	390	NA	NA
7440-02-0	Nickel (Ni) N	160	21	1,500	MA	6.38

Preliminary Remediation Goals (PRGs) for Soil Contaminants

CAS #	Parameter	USEPA - RBCs	USEPA - SSLs	FDEP - CGs	FDEP CGs for Leaching	NASP Reference Concentration
Inorganics (mg/kg)						
7440-09-7	Potassium (K) N	NA	NA	NA	NA	460.67
7782-49-2	Selenium (Se) N	39	3	390	NA	0.62
7440-22-4	N					
7440-23-5						
7440-24-6						
7440-28-0						
7440-31-5	Tin (Sn) N	4,700	NA	42,000	NA	NA
7440-62-2	Vanadium (V) N	55	NA	490	NA	5.83
7440-66-6	Zinc (Zn) N	2,300	42,000	23,000	NA	16.87

Appendix D

Sample Values Exceeding PRGs

Exceeds Preliminary Remediation Goals (PRGs) for Soil Contaminants
PENSACOLA, SITE 16

	Sample ID	Date	Result	VQual	PRG	Reason	NASP Reference Concentration
Inorganics (mg/kg)							
7440-38-2 Arsenic (As) C							
	016-S-0002-01	04/10/96	0.63	J	0.43	USEPA-RBC	1.56
	016-S-0003-01	04/11/96	0.6	J	0.43	USEPA-RBC	1.56
	016-S-0004-01	04/10/96	0.57	J	0.43	USEPA-RBC	1.56
	016-S-0005-01	04/10/96	5.5	J	0.43	USEPA-RBC	1.56
	016-S-0010-01	04/11/96	0.51	J	0.43	USEPA-RBC	1.56
	016-S-0012-01	04/10/96	0.72	J	0.43	USEPA-RBC	1.56
7439-89-6 Iron (Fe) N							
	016-S-0005-01	04/10/96	4,920.	J	2,300.	USEPA-RBC	2,745.

Exceeds Preliminary Remediation Goals (PRGs) for Soil Contaminants
PENSACOLA, SITE 16

	Sample ID	Date	Result	VQual	PRG	R——	NASP Reference Concentratim
Pesticides (µg/kg)							
No Exceedances Found							

Exceeds Preliminary Remediation Goals (PRGs) for Soil Contaminants
PENSACOLA, SITE 16

		Sample ID	Date	Result	VQual	PRG	Reason	NASP Reference Concentration
Semivolatiles (µg/kg)								
50-32-8	Benzo(a)pyrene C	016-S-0005-01	04/10/96	99.		88.	USEPA-RBC	NA

Exceeds Preliminary Remediation Goals (PRGs) for Soil Contaminants
PENSACOLA, SITE 16

		Sample ID	Date	Result	VQual	PRG	Reason	NASP Reference Concentration
Semivolatiles (µg/kg)								
50-32-8	Benzo(a)pyrene C	016-S-0005-01	04/10/96	99.		88.	USEPA-RBC	NA

Exceeds Preliminary Remediation Goals (PRGs) for Soil Contaminants
PENSACOLA, SITE 16

	Sample ID	Date	Result	VQual	PRG	Reason	NASP Reference Concentration
Volatiles (µg/kg)							
No Exceedances Found							

Exceeds Preliminary Remediation Goals (PRGs) for Groundwater Contaminants
PENSACOLA, SITE 16

	Sample ID	Date	Result	VQual	PRG	Reason	NASP Reference Concentration
Inorganics (µg/l)							
7429-90-5 Aluminum (Al) N							
	016-G-GS01-01	05/09/96	1,220.		50.	EPA SWCL	3,882.8
	016-G-GSO2-01	05/09/96	653.		50.	EPA SMCL	3,882.8
	016-G-GS03-01	05/09/96	234.		50.	EPA SWCL	3,882.8
	016-G-GS04-01	05/09/96	492.		50.	EPA SMCL	3,882.8
	016-G-GSO5-01	05/09/96	1,150.		50.	EPA SMCL	3,882.8
	016-G-GS06-01	05/08/96	557.		50.	EPA SMCL	3,882.8
	016-G-GS07-01	05/08/96	3,810.		50.	EPA SMCL	3,882.8
	016-G-GS08-01	05/08/96	4,910.		50.	EPA SMCL	3,882.8
7439-89-6 Iron (Fe) N							
	016-G-GS01-01	05/09/96	539.		300.	FSDWS	1,707.8
	016-G-GSO2-01	05/09/96	462.		300.	FSDWS	1,707.8
	016-G-GSO3-01	05/09/96	1,920.		300.	FSDWS	1,707.8
	016-G-GSO5-01	05/09/96	574.		300.	FSDWS	1,707.8
	016-G-GS07-01	05/08/96	1,380.		300.	FSDWS	1,707.8
	016-G-GS08-01	05/08/96	966.		300.	FSDWS	1,707.8
7439-96-5 Manganese (Mn) N							
	016-G-GS03-01	05/09/96	61.8		50.	FSDWS	22.
	016-G-GS04-01	05/09/96	77.3		50.	FSDWS	22.

Exceeds Preliminary Remediation Goals (PRGs) for Groundwater Contaminants
PENSACOLA, SITE 16

	Sample ID	Date	Result	VQual	PRG	Reason	NASP Reference Concentration
Pesticides (µg/l)							
No Exceedances Found							

Exceeds Preliminary Remediation Goals (PRGs) for Groundwater Contaminants
PENSACOLA, SITE 16

	Sample ID	Detc	Result	VQual	PRG	Reason	NASP Reference Concentration
Semivolatiles (µg/l)							
NO Exceedances Found							

Exceeds Preliminary Remediation Goals (PRGs) for Groundwater Contaminants
PENSACOLA, SITE 16

	Sample ID	Date	Result	VQual	PRG	Reason	MASP Reference Concentration
Volatiles (µg/l)							

No Exceedances Found

Appendix E

Database Summary of Analytical Data

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL													
	SAMPLE ID ------->	016-S-0001-01		016-W-0001-01		016-R-0001-01		016-S-0001-04		016-S-0002-01		016-S-0002-05	
	ORIGINAL ID ----->	016S000101		016W000101		016R000101		016S000104		016S000201		016S000205	
	LAB SAMPLE ID --->	5610-02		5671-06		5671-04		5610-03		5610-04		5610-05	
	ID FROM REPORT -->	016S000101		016W000101		016R000101		016S000104		016S000201		016S000205	
	SAMPLE DATE ----->	04/10/96		05/14/96		05/14/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/24/96						04/24/96		04/24/96		04/24/96	
	DATE ANALYZED --->	04/18/96				05/31/96		04/18/96		04/18/96		04/18/96	
	MATRIX ---------->	Soil		Water		Water		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	UG/L	A	UG/L	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter	SITE16	VAL	SITEW16	VAL	SITEW16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
7429-90-5	Aluminum (Al)	1040.		540.	J	343.	J	1290.		1620.		529.	
7440-36-0	Antimony (Sb)	0.19	UJ	1.6	U	16	U	0.19	UJ	0.19	UJ	0.18	UJ
7440-38-2	Arsenic (As)	0.4	J	4.	U	4.	U	0.46	J	0.63	J	0.33	J
7440-39-3	Barium (Ba)	5.3	J	11.	J	10.2	J	1.4	J	1.7	J	0.79	J
7440-41-7	Beryllium (Be)	0.04	UJ	0.22	U	0.31	J	0.04	UJ	0.04	UJ	0.04	UJ
7440-43-9	Cadmium (Cd)	0.05	J	0.33	U	0.33	U	0.03	U	0.03	U	0.03	U
7440-70-2	Calcium (Ca)	113.	J	18000.		18000.		39.5	J	18.3	U	9.3	U
7440-47-3	Chromium (Cr)	1.1	J	1.8	J	1.4	J	1.1	J	1.3	J	0.51	J
7440-48-4	Cobalt (Co)	0.22	U	0.67	U	0.67	U	0.22	U	0.22	U	0.22	U
7440-50-8	Copper (Cu)	2.2	J	0.44	UJ	0.44	UJ	0.42	J	1.5	J	0.14	J
7439-89-6	Iron (Fe)	998.	J	1%.		132.		952.	J	1160.	J	432.	J
7439-92-1	Lead (Pb)	29.9		2.4	U	2.1	U	1.1		5.1		0.43	
7439-95-4	Magnesium (Mg)	66.9	J	6560.		6520.		53.7	J	60.1	J	21.	J
7439-96-5	Manganese (Mn)	10.	J	12.4		12.4		4.7	J	3.3	J	1.9	J
7439-97-6	Mercury (Hg)	0.27		0.2	U	0.2	U	0.23		0.35		0.3	
7440-02-0	Nickel (Ni)	0.38	J	0.67	U	0.67	U	0.66	J	0.57	J	0.29	J
7440-09-7	Potassium (K)	33.4	J	4250.	J	4140.	J	27.	J	36.6	J	9.7	U
7782-49-2	Selenium (Se)	0.41	U	4.3	UJ	4.3	UJ	0.4	U	0.4	U	0.39	U
7440-22-4	Silver (Ag)	0.15	U	1.2	J	1.3	J	0.15	U	0.15	U	0.14	U
7440-23-5	Sodium (Na)	44.1	U	45200.		44800.		35.3	U	4%.	J	21.7	U
7440-28-0	Thallium (Tl)	0.41	U	5.3	U	5.3	U	0.4	U	0.4	U	0.39	U
7440-62-2	Vanadium (V)	2.		2.7	J	2.2	J	1.7		2.4		0.72	J
7440-66-6	Zinc (Zn)	10.7	J	8.7	J	18.1	J	2.4	UJ	4.5	J	1.7	UJ
57-12-5	Cyanide (CN)	?????????		?????????		?????????		?????????		?????????		?????????	

*** Validation Complete +**

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL													
	SAMPLE ID ------->	016-S-0003-01		016-S-0003-03		016-S-0004-01		016-S-0004-05		016-S-0005-01		016-C-0005-01	
	ORIGINAL ID ----->	016S000301		016S000303		016S000401		016S000405		016S000501		016C000501	
	LAB SAMPLE ID --->	5613-02		5613-03		5610-06		5610-07		5610-08		5610-01	
	ID FROM REPORT -->	016S000301		016S000303		016S000401		016S000405		016S000501		016C000501	
	SAMPLE DATE ----->	04/11/96		04/11/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/24/96		04/24/96		04/24/96		04/24/96		04/24/96		04/24/96	
	DATE ANALYZED --->	04/18/96		04/24/96		04/18/96		04/18/96		04/18/96		04/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
7429-90-5	Aluminum (Al)	1500.		462.		1820.		384.		2740.		2820.	
7440-36-0	Antimony (Sb)	0.19	UJ	0.22	UJ	0.19	UJ	0.2	UJ	0.37	J	0.2	UJ
7440-38-2	Arsenic (As)	0.6	J	0.42	J	0.57	J	0.29	UJ	5.5	J	5.1	J
7440-39-3	Barium (Ba)	2.8	J	2.9	J	2.1	J	0.65	J	153.	J	111.	J
7440-41-7	Beryllium (Be)	0.04	UJ	0.05	UJ	0.04	UJ	0.04	UJ	0.06	J	0.06	J
7440-43-9	Cadmium (Cd)	0.03	U	0.04	U	0.03	U	0.03	U	0.49		0.47	
7440-70-2	Calcium (Ca)	163.	J	199.	J	37.1	J	6.3	U	18500.	J	7810.	J
7440-47-3	Chromium (Cr)	1.4	J	0.53	J	1.4	J	0.35	J	9.9	J	9.4	3
7440-48-4	Cobalt (Co)	0.22	U	0.26	U	0.22	U	0.23	U	0.32	J	0.42	J
7440-50-8	Copper (Cu)	0.68	J	0.40	J	0.51	J	0.13	U	6.9	J	7.7	J
7439-89-6	Iron (Fe)	1100.	J	442.	J	1270.	J	291.	J	4920.	J	1940.	J
7439-92-1	Lead (Pb)	3.5		5.5		1.9		0.27		33.4		34.6	
7439-95-4	Magnesium (Mg)	76.5	J	38.4	J	60.8	J	14.9	J	5880.	J	856.	J
7439-96-5	Manganese (Mn)	21.9	J	7.	J	18.	J	3.7	J	69.8	J	53.5	J
7439-97-6	Mercury (Hg)	0.11	U	0.19		0.24		0.24		0.39		0.53	
7440-02-0	Nickel (Ni)	0.63	J	0.22	U	0.67	J	0.2	U	1.4	J	1.7	J
7440-09-7	Potassium (K)	42.5	J	14.8	U	30.3	J	8.9	U	172.		170.	
7782-49-2	Selenium (Se)	0.4	U	0.47	U	0.39	U	0.42	U	0.44	U	0.43	U
7440-22-4	Silver (Ag)	0.15	U	0.17	U	0.14	U	0.16	U	0.16	U	0.16	U
7440-23-5	Sodium (Na)	16.	U	25.9	U	18.1	U	20.5	U	86.9	U	58.1	U
7440-28-0	Thallium (Tl)	0.4	U	0.47	U	0.39	U	0.42	U	0.44	U	0.43	U
7440-62-2	Vanadium (V)	2.3		0.54	J	2.5		0.51	3	4.9		4.1	
7440-66-6	Zinc (Zn)	3.1	UJ	1.2	UJ	2.4	UJ	1.1	UJ	40.5	J	33.4	J
57-12-5	Cyanide (CN)	??????????		??????????		??????????		??????????		??????????		??????????	

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL													
	SAMPLE ID ------->	016-S-0005-05		016-S-0006-01		016-S-0006-07		016-S-0007-01		016-5-0007-01		016-6-0007-01	
	ORIGINAL ID ----->	016S000505		016S000601		016S000607		016S000701		0165000701		0166000701	
	LAB SAMPLE ID --->	5610-09		5610-10		5610-11		5610-12		5602-11		5602-12	
	ID FROM REPORT -->	016S000505		016S000601		016S000607		016S000701		0165000701		0166000701	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/01/96		04/01/96	
	DATE EXTRACTED -->	04/24/96		04/24/96		04/24/96		04/24/96		04/11/96		04/11/96	
	DATE ANALYZED --->	04/18/96		04/18/96		04/18/96		04/18/96		04/16/96		04/16/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	B	MG/KG	B
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
7429-90-5	Aluminum (Al)	840.		576.		310.		139.		6570.	J	143.	J
7440-36-0	Antimony (Sb)	0.19	UJ	0.18	UJ	0.18	UJ	0.19	UJ	2.	UJ	0.18	UJ
7440-38-2	Arsenic (As)	0.3	J	0.27	UJ	0.27	UJ	0.27	UJ	1.9	J	0.26	UJ
7440-39-3	Barium (Ba)	2.3	J	0.88	J	0.77	J	0.33	J	167.	J	0.2	J
7440-41-7	Beryllium (Be)	0.04	UJ	0.04	UJ	0.04	UJ	0.04	UJ	1.3		0.04	U
7440-43-9	Cadmium (Cd)	0.03	U	0.03	U	0.03	U	0.03	U	0.26		0.03	U
7440-70-2	Calcium (Ca)	97.1	J	20.7	U	10.5	U	5.1	U	1760.	J	9.	U
7440-47-3	Chromium (Cr)	1.1	J	0.51	J	0.35	J	0.25	J	0.47	J	0.12	U
7440-48-4	Cobalt (Co)	0.22	U	0.22	U	0.22	U	0.22	U	0.23	U	0.21	U
7440-50-8	Copper (Cu)	0.27	J	0.27	J	0.12	U	0.12	U	2.1	J	0.12	U
7439-89-6	Iron (Fe)	252.	J	481.	J	102.	J	78.6	J	2110.	J	56.4	J
7439-92-1	Lead (Pb)	0.91		0.91		0.35		0.25		43.8	J	0.73	J
7439-95-4	Magnesium (Mg)	52.1	J	21.	J	15.	J	6.9	J	812.	J	3.6	U
7439-96-5	Manganese (Mn)	1.3	J	2.5	J	0.45	J	0.61	J	23.7	J	0.22	J
7439-97-6	Mercury (Hg)	0.31		0.34		0.29		0.33		0.12		0.2	
7440-02-0	Nickel (Ni)	0.34	J	0.34	J	0.18	U	0.19	U	0.633	J	0.18	U
7440-09-7	Potassium (K)	33.7	J	12.3	U	9.8	U	4.9	U	2050.	J	3.5	U
7782-49-2	Selenium (Se)	0.39	U	0.39	U	0.39	U	0.39	U	0.42	UJ	0.37	UJ
7440-22-4	Silver (Ag)	0.14	U	0.14	U	0.14	U	0.14	U	0.24	J	0.14	U
7440-23-5	Sodium (Na)	22.7	U	19.6	U	92.4	U	15.8	U	17000.	J	24.8	U
7440-28-0	Thallium (Tl)	0.39	U	0.39	U	0.39	U	0.39	U	0.42	U	0.37	U
7440-62-2	Vanadium (V)	1.	J	0.96	J	0.5	J	0.16	J	0.49	J	0.18	J
7440-66-6	Zinc (Zn)	1.2	UJ	1.4	UJ	0.91	UJ	0.72	UJ	0.88	J	0.48	U
57-12-5	Cyanide (CN)	??????????		??????????		??????????		??????????		??????????		??????????	

+++ Validation Complete **+

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL													
	SAMPLE ID ------->	016-S-0007-06		016-S-0008-01		016-S-0008-07		016-S-0008-12		016-S-0009-01		016-S-0009-07	
	ORIGINAL ID ----->	016S000706		016S000801		016S000807		016S000812		016S000901		016S000907	
	LAB SAMPLE ID --->	5610-13		5610-14		5610-15		5610-16		5610-17		5610-18	
	ID FROM REPORT -->	016S000706		016S000801		016S000807		016S000812		016S000901		016S000907	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/24/96		04/24/96		04/24/96		04/24/96		04/24/96		04/24/96	
	DATE ANALYZED --->	04/18/96		04/18/96		04/18/96		04/18/96		04/18/96		04/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
7429-90-5	Aluminum (Al)	811.		345.		1250.		88.4		866.		2310.	
7440-36-0	Antimony (Sb)	0.19	UJ	0.18	UJ	0.19	UJ	0.18	UJ	0.19	UJ	0.2	UJ
7440-38-2	Arsenic (As)	0.31	J	0.26	UJ	0.27	UJ	0.27	UJ	0.27	UJ	0.64	J
7440-39-3	Barium (Ba)	1.3	J	0.66	J	0.96	J	0.14	UR	1.2	J	2.9	J
7440-41-7	Beryllium (Be)	0.04	UJ	0.04	UJ	0.04	UJ	0.04	UJ	0.04	UJ	0.04	UJ
7440-43-9	Cadmium (Cd)	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
7440-70-2	Calcium (Ca)	12.7	U	8.7	U	10.8	U	5.5	U	12.4	U	423.	J
7440-47-3	Chromium (Cr)	0.64	J	0.34	J	1.3	J	0.33	J	0.72	J	1.7	3
7440-48-4	Cobalt (Co)	0.22	U	0.21	U	0.22	U	0.21	U	0.22	U	0.23	U
7440-50-8	Copper (Cu)	0.24	J	0.19	J	0.35	J	0.12	U	0.15	J	0.83	J
7439-89-6	Iron (Fe)	582.	J	269.	J	96.4	J	17.4	J	661.	J	671.	J
7439-92-1	Lead (Pb)	1.4		0.81		1.?		0.36		0.86		3.2	
7439-95-4	Magnesium (Mg)	24.7	J	16.6	J	20.4	J	3.4	U	36.5	J	50.5	J
7439-96-5	Manganese (Mn)	1.9	J	1.5	J	0.44	J	0.11	J	2.3	J	3.	J
7439-97-6	Mercury (Hg)	0.37		0.29		0.31		0.35		0.32		0.32	
7440-02-0	Nickel (Ni)	0.21	J	0.18	U	0.26	J	0.18	U	0.43	J	0.55	J
7440-09-7	Potassium (K)	16.	U	10.	U	14.4	U	3.6	U	16.6	U	29.1	J
7782-49-2	Selenium (Se)	0.39	U	0.38	U	0.66		0.39	U	0.4	U	0.44	
7440-22-4	Silver (Ag)	0.14	U	0.14	U	0.15	U	0.14	U	0.15	U	0.15	U
7440-23-5	Sodium (Na)	24.	U	15.4	U	24.	U	19.8	U	42.7	U	24.9	U
7440-28-0	Thallium (Tl)	0.39	U	0.38	U	0.39	U	0.39	U	0.4	U	0.41	U
7440-62-2	Vanadium (V)	1.3		0.54	J	2.2		0.08	J	1.4		2.5	
7440-66-6	Zinc (Zn)	1.2	UJ	1.2	UJ	1.4	UJ	0.45	UJ	1.5	UJ	2.2	UJ
57-12-5	Cyanide (CN)	?????????		?????????		?????????		?????????		?????????		?????????	

*** validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL													
	SAMPLE ID ------->	016-S-0010-01		016-C-0010-01		016-S-0010-04		016-S-0011-01		016-S-0011-04		016-S-0012-01	
	ORIGINAL ID ----->	016S001001		016C001001		016S001004		016S001101		016S001104		016S001201	
	LAB SAMPLE ID --->	5613-04		5613-01		5613-05		5613-06		5613-07		5610-19	
	ID FROM REPORT -->	016S001001		016C001001		016S001004		016S001101		016S001104		016S001201	
	SAMPLE DATE ----->	04/11/96		04/11/96		04/11/96		04/11/96		04/11/96		04/10/96	
	DATE EXTRACTED -->	04/24/96		04/24/96		04/24/96		04/24/96		04/24/96		04/24/96	
	DATE ANALYZED --->	04/24/96		04/24/96		04/24/96		04/24/96		04/24/96		04/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
7429-90-5	Aluminum (Al)	1560.		1900.		1340.		2020.		1090.		2530.	
7440-36-0	Antimony (Sb)	0.19	UJ	0.19	UJ	0.19	UJ	0.19	UJ	0.19	UJ	0.19	UJ
7440-38-2	Arsenic (As)	0.51	J	0.72	J	0.67	J	0.39	J	0.75	J	0.72	J
7440-39-3	Barium (Ba)	2.3	J	2.7	J	2.5	J	2.4	J	1.8	J	3.4	J
7440-41-7	Beryllium (Be)	0.04	UJ	0.04	UJ	0.04	UJ	0.04	UJ	0.04	UJ	0.04	UJ
7440-43-9	Cadmium (Cd)	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
7440-70-2	Calcium (Ca)	19.8	U	30.6	J	16.5	U	24.6	U	9.9	U	92.7	J
7440-47-3	Chromium (Cr)	1.1	J	1.4	J	0.98	J	1.3	J	1.8	J	1.7	J
7440-48-4	Cobalt (Co)	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.38	J
7440-50-8	Copper (Cu)	0.86	J	1.1	J	0.39	J	0.9	J	0.21	J	1.	J
7439-89-6	Iron (Fe)	1050.	J	1170.	J	851.	J	1040.	J	1190.	J	1660.	J
7439-92-1	Lead (Pb)	2.5		2.6		0.9		3.5		0.65		6.1	
7439-95-4	Magnesium (Mg)	45.3	J	68.5	J	50.4	J	51.8	J	31.7	J	85.4	J
7439-96-5	Manganese (Mn)	22.8	J	27.7	J	9.1	J	7.7	J	3.3	J	47.6	J
7439-97-6	Mercury (Hg)	0.11	U	0.11	U	0.1	U	0.11		0.1	U	0.39	
7440-02-0	Nickel (Ni)	0.54	J	0.73	J	0.44	J	0.47	J	0.25	J	1.	J
7440-09-7	Potassium (K)	28.2	J	40.7	J	22.7	U	34.5	J	14.3	U	46.1	J
7782-49-2	Selenium (Se)	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
7440-22-4	Silver (Ag)	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U
7440-23-5	Sodium (Na)	19.	U	20.6	U	17.1	U	22.	U	18.	U	19.1	U
7440-28-0	Thallium (Tl)	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.39	U
7440-62-2	Vanadium (V)	2.1		2.6		1.7		2.7		2.6		3.4	
7440-66-6	Zinc (Zn)	2.2	UJ	3.	UJ	1.1	UJ	1.8	UJ	1.1	UJ	2.9	UJ
57-12-5	Cyanide (CN)	??????????		??????????		??????????		??????????		??????????		??????????	

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL																	
	SAMPLE ID ------->	016-S-0012-05		016-G-GS01-01		016-G-GS02-01		016-G-GS03-01		016-G-GS04-01		016-G-GS05-01	
	ORIGINAL ID ----->	016S001205		016GGS0101		016GGS0201		016GGS0301		016GGS0401		016GGS0501	
	LAB SAMPLE ID --->	5610-20		5659-01		5659-02		5659-03		5659-04		5659-05	
	ID FROM REPORT -->	016S001205		016GGS0101		016GGS0201		016GGS0301		016GGS0401		016GGS0501	
	SAMPLE DATE ----->	04/10/96		05/09/96		05/09/96		05/09/96		05/09/96		05/09/96	
	DATE EXTRACTED -->	04/24/96											
	DATE ANALYZED --->	04/18/96											
	MATRIX ---------->	Soil		Water		Water		Water		Water		Water	
	UNITS ---------->	MG/KG	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter	SITE16	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL
7429-90-5	Aluminum (Al)	247.		1220.		653.		234.		492.		1150.	
7440-36-0	Antimony (Sb)	0.21	UJ	2.1	J	1.6	U	1.6	U	1.6	U	1.6	U
7440-38-2	Arsenic (As)	0.3	UJ	4.	U	4.	U	4.	U	4.	U	4.	U
7440-39-3	Barium (Ba)	0.96	J	5.8	U	9.7	J	4.9	U	38.8		44.5	
7440-41-7	Beryllium (Be)	0.05	UJ	0.31	J	0.34	J	0.29	J	0.3	J	0.37	J
7440-43-9	Cadmium (Cd)	0.03	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U
7440-70-2	Calcium (Ca)	14.6	U	1170.		1680.		1490.		5060.		7830.	
7440-47-3	Chromium (Cr)	0.41	J	1.2	U	1.2	J	1.8	J	1.2	U	1.9	J
7440-48-4	Cobalt (Co)	0.24	U	0.67	J	0.67	U	0.67	U	0.67	U	0.67	U
7440-50-8	Copper (Cu)	0.14	U	0.44	UJ	0.44	UJ	0.44	UJ	0.44	UJ	0.44	UJ
7439-89-6	Iron (Fe)	113.	J	539.		462.		1920.		101.	J	574.	
7439-92-1	Lead (Pb)	0.98		13.6		2.4	U	2.4	U	2.4	U	33	
7439-95-4	Magnesium (Mg)	12.	J	592.		944.		578.		1930.		2670.	
7439-96-5	Manganese (Mn)	3.2	J	29.		36.5		61.8		77.3		18.1	
7439-97-6	Mercury (Hg)	0.35		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7440-02-0	Nickel (Ni)	0.21	U	2.4	J	0.74	J	1.1	J	0.67	U	0.67	U
7440-09-7	Potassium (K)	11.2	U	259.	J	711.	J	1520.		7130.		4290.	
7782-49-2	Selenium (Se)	0.44	U	4.3	UJ	4.3	UJ	4.3	UJ	4.3	UJ	4.3	UJ
7440-22-4	Silver (Ag)	0.16	U	1.1	J	1.2	J	1.3	J	1.2	J	1.	J
7440-23-5	Sodium (Na)	18.3	U	6430.		4280.		4090.		4270.		4410.	
7440-28-0	Thallium (Tl)	0.44	U	5.3	U	5.3	U	5.3	U	5.3	U	5.3	U
7440-62-2	Vanadium (V)	0.32	J	1.2	J	0.94	J	0.73	J	1.7	J	10.5	J
7440-66-6	Zinc (Zn)	1.1	UJ	4.3	J	11.3	J	0.23	J	7.8	J	1.4	J
57-12-5	Cyanide (CN)	??????????		??????????		??????????		??????????		??????????		??????????	

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL													
		SAMPLE ID ------->	016-G-GS06-01		016-G-GS07-01		016-G-GS08-01						
		ORIGINAL ID ----->	016GGS0601		016GGS0701		016GGS0801						
		LAB SAMPLE ID --->	5657-01		5657-02		5657-03						
		ID FROM REPORT -->	016GGS0601		016GGS0701		016GGS0801						
		SAMPLE DATE ----->	05/08/96		05/08/96		05/08/96						
		MATRIX ---------->	Water		Water		Water						
		UNITS ---------->	UG/L	A	UG/L	A	UG/L	A					
CAS #	Parameter		SITE16W	VAL	SITE16W	VAL	SITE16W	VAL					
7429-90-5	Aluminum (Al)		557.		3810.		4910.						
7440-36-0	Antimony (Sb)		1.6	U	1.8	J	1.6	U					
7440-38-2	Arsenic (As)		4.	U	4.	U	4.	U					
7440-39-3	Barium (Ba)		8.	J	8.8	J	10.7	J					
7440-41-7	Beryllium (Be)		0.31	J	0.29	J	0.41	J					
7440-43-9	Cadmium (Cd)		0.33	U	0.33	U	0.33	U					
7440-70-2	Calcium (Ca)		821.		7590.		10900.						
7440-47-3	Chromium (Cr)		1.2	U	3.9	J	5.	J					
7440-48-4	Cobalt (Co)		0.67	U	0.67	U	0.67	U					
7440-50-8	Copper (Cu)		0.44	UJ	1.2	J	3.2	J					
7439-89-6	Iron (Fe)		276.		1380.		966.						
7439-92-1	Lead (Pb)		2.4	U	2.7		2.9						
7439-95-4	Magnesium (Mg)		748.		730.		587.						
7439-96-5	Manganese (Mn)		10.2	J	11.1		5.5	J					
7439-97-6	Mercury (Hg)		0.2	U	0.2	U	0.2	U					
7440-02-0	Nickel (Ni)		0.67	U	1.3	J	2.3	J					
7440-09-7	Potassium (K)		422.	J	382.	J	231.	J					
7782-49-2	Selenium (Se)		4.3	UJ	4.3	UJ	4.3	UJ					
7440-22-4	Silver (Ag)		0.67	U	0.89	J	1.8	J					
7440-23-5	Sodium (Na)		3310.		4360.		3640.						
7440-28-0	Thallium (Tl)		5.3	U	5.3	U	5.3	U					
7440-62-2	Vanadium (V)		1.5	J	4.9	J	17.7						
7440-66-6	Zinc (Zn)		2.9	J	5.9	J	9.7	J					
57-12-5	Cyanide (CN)		??????????		??????????		??????????						

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL-CN													
	SAMPLE ID ------->	016-S-0001-01		016-W-0001-01		016-R-0001-01		016-S-0001-04		016-S-0002-01		016-S-0002-05	
	ORIGINAL ID ----->	016S000101		016W000101		016R000101		016S000104		016S000201		016S000205	
	LAB SAMPLE ID --->	5610-02		5671-06		5671-04		5610-03		5610-04		5610-05	
	ID FROM REPORT -->	016S000101		016W000101		016R000101		016S000104		016S000201		016S000205	
	SAMPLE DATE ----->	04/10/96		05/14/96		05/14/96		04/10/96		04/10/96		04/10/96	
	DATE ANALYZED --->	04/23/96				05/24/96		04/23/96		04/23/96		04/23/96	
	MATRIX ---------->	Soil		Water		Water		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	UG/L	A	UG/L	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter	SITE16	VAL	SITEW16	VAL	SITEW16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
57-12-5	Cyanide (CN)	0.53	U	10.	U	10.	U	0.53	U	0.53	U	0.52	

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL-CN																							
	SAMPLE ID ------->	016-S-0003-01			016-S-0003-03			016-S-0004-01			016-S-0004-05			016-S-0005-01			016-C-0005-01		
	ORIGINAL ID ----->	016S000301			016S000303			016S000401			016S000405			016S000501			016C000501		
	LAB SAMPLE ID --->	5613-02			5613-03			5610-06			5610-07			5610-08			5610-01		
	ID FROM REPORT -->	016S000301			016S000303			016S000401			016S000405			016S000501			016C000501		
	SAMPLE DATE ----->	04/11/96			04/11/96			04/10/96			04/10/96			04/10/96			04/10/96		
	DATE ANALYZED --->	04/23/96			04/23/96			04/23/96			04/23/96			04/23/96			04/23/96		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A	MG/KG		A
CAS #	Parameter	SITE16		VAL	SITE16		VAL	SITE16		VAL	SITE16		VAL	SITE16		VAL	SITE16		VAL
57-12-5	Cyanide (CN)	0.53		U	0.62		U	0.52		U	0.56		U	0.58		U	0.57		U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL-CN																	
	SAMPLE ID ------->	016-S-0005-05		016-S-0006-01		016-S-0006-07		016-S-0007-01		016-5-0007-01		016-6-0007-01	
	ORIGINAL ID ----->	016S000505		016S000601		016S000607		016S000701		0165000701		0166000701	
	LAB SAMPLE ID --->	5610-09		5610-10		5610-11		5610-12		5602-11		5602-12	
	ID FROM REPORT -->	016S000505		016S000601		016S000607		016S000701		0165000701		0166000701	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/01/96		04/01/96	
	DATE EXTRACTED -->									04/12/96		04/12/96	
	DATE ANALYZED --->	04/23/96		04/23/96		04/23/96		04/23/96		04/13/96		04/13/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	B	MG/KG	B
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
57-12-5	Cyanide (CN)	0.53	U	0.51	U	0.52	U	0.53	U	0.55	U	0.5	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL-CN													
	SAMPLE ID ------->	016-S-0007-06		016-S-0008-01		016-S-0008-07		016-S-0008-12		016-S-0009-01		016-S-0009-07	
	ORIGINAL ID ----->	016S000706		016S000801		016S000807		016S000812		016S000901		016S000907	
	LAB SAMPLE ID --->	5610-13		5610-14		5610-15		5610-16		5610-17		5610-18	
	ID FROM REPORT -->	016S000706		016S000801		016S000807		016S000812		016S000901		016S000907	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE ANALYZED --->	04/23/96		04/23/96		04/23/96		04/23/96		04/23/96		04/23/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
57-12-5	Cyanide (CN)	0.52	U	0.51	U	0.53	U	0.52	U	0.52	U	0.55	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL-CN																	
	SAMPLE ID ------->	016-S-0010-01		016-C-0010-01		016-S-0010-04		016-S-0011-01		016-S-0011-04		016-S-0012-01	
	ORIGINAL ID ----->	016S001001		016C001001		016S001004		016S001101		016S001104		016S001201	
	LAB SAMPLE ID --->	5613-04		5613-01		5613-05		5613-06		5613-07		5610-19	
	ID FROM REPORT -->	016S001001		016C001001		016S001004		016S001101		016S001104		016S001201	
	SAMPLE DATE ----->	04/11/96		04/11/96		04/11/96		04/11/96		04/11/96		04/10/96	
	DATE ANALYZED --->	04/23/96		04/23/96		04/23/96		04/23/96		04/23/96		04/23/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
57-12-5	Cyanide (CN)	0.53	U	0.53	U	0.52	U	0.53	U	0.52	U	0.53	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL-CN																													
	SAMPLE ID ------->	016-S-0012-05		)16-G-GS01-01				016-G-GS02-01				016-G-GS03-01				016-G-GS04-01				)16-G-GS05-01			
	ORIGINAL ID ----->	016S001205		)16GGS0101				016GGS0201				016GGS0301				016GGS0401				)16GGS0501			
	LAB SAMPLE ID --->	5610-20		5659-01				5659-02				5659-03				5659-04				5659-05			
	ID FROM REPORT -->	016S001205		)16GGS0101				016GGS0201				016GGS0301				016GGS0401				)16GGS0501			
	SAMPLE DATE ----->	04/10/96		)5/09/96				05/09/96				05/09/96				05/09/96				)5/09/96			
	DATE ANALYZED --->	04/23/96		)5/22/96				05/22/96				05/22/96				05/22/96				)5/22/96			
	MATRIX ---------->	Soil		Water				Water				Water				Water				Water			
	UNITS ---------->	MG/KG	A	)G/L			A	UG/L			A	UG/L			A	UG/L			A	)G/L			A
CAS #	Parameter	SITE16	VAL	SITE16W		VAL		SITE16W		VAL		SITE16W		VAL		SITE16W		VAL		SITE16W		VAL	
57-12-5	Cyanide (CN)	0.59	U	10.		U		10.		U		10.		U		10.		U		10.		U	

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

METAL-CN								
	SAMPLE ID ------->	016-G-GS06		016-G-GS07-01		016-G-GS08-01		
	ORIGINAL ID ----->	016GGS0601		016GGS0701		016GGS0801		
	LAB SAMPLE ID --->	5657-01		5657-02		5657-03		
	ID FROM REPORT -->	016GGS0601		016GGS0701		016GGS0801		
	SAMPLE DATE ----->	05/08/96		05/08/96		05/08/96		
	DATE ANALYZED --->	05/18/96		05/18/96		05/18/96		
	MATRIX ---------->	Water		Water		Water		
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	
CAS #	Parameter	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	
57-12-5	Cyanide (CN)	10.	U	10.	U	10	U	

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

PEST																	
	SAMPLE ID ------->	016-S-0001-01		016-W-0001-01		016-W-0001-01 MS		016-W-0001-01 MSD		016-R-0001-01		016-R-0001-01 RE	
	ORIGINAL ID ----->	016S000101		016W000101		016W000101		016W000101		016R000101		016R000101	
	LAB SAMPLE ID --->	5610-02		5671-06		5671-06MS		5674-06MSD		5671-04		5671-04RX	
	ID FROM REPORT -->	016S000101		016W000101		016W000101		016W000101		016R000101		016R000101	
	SAMPLE DATE ----->	04/10/96		05/14/96		05/14/96		05/14/96		05/14/96		05/14/96	
	DATE EXTRACTED -->	04/15/96		05/20/96		05/20/96		05/20/96				05/30/96	
	DATE ANALYZED --->	04/18/96		05/25/96		05/25/96		05/25/96		05/25/96		05/31/96	
	MATRIX ---------->	Soil		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/KG	A	UG/L	A	UG/L	D	UG/L	D	UG/L	A	UG/L	C
CAS #	Parameter	SITE16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL
319-84-6	alpha-BHC	0.767	U	0.04	UJ	0.04	U	0.04	U	0.04	UJ	0.04	UR
319-85-7	beta-BHC	0.618	U	0.03	UJ	0.03	U	0.03	U	0.03	UJ	0.03	UR
319-86-8	delta-BHC	0.735	UJ	0.03	UJ	0.03	U	0.03	U	0.03	UJ	0.03	UR
58-89-9	gamma-BHC (Lindane)	0.841	U	0.04	UJ	0.059		0.066		0.04	UJ	0.04	UR
76-44-8	Heptachlor	0.724	U	0.04	UJ	0.04	U	0.04	U	0.04	UJ	0.04	UR
309-00-2	Aldrin	0.735	U	0.05	UJ	0.05	U	0.05	U	0.05	UJ	0.05	UR
1024-57-3	Heptachlor epoxide	1.04	U	0.03	UJ	0.055		0.067		0.03	UJ	0.03	UR
959-98-8	Endosulfan I	0.969	U	0.04	UJ	0.04	U	0.04	U	0.04	UJ	0.04	UR
60-57-1	Dieldrin	1.79	U	0.08	UJ	0.113		0.125		0.08	UJ	0.08	UR
72-55-9	4,4'-DDE	1.4	U	0.06	UJ	0.055	J	0.056	J	0.06	UJ	0.06	UR
72-20-8	Endrin	1.74	U	0.1	UJ	0.123		0.134		0.1	UJ	0.1	UR
33213-65-9	Endosulfan II	1.61	U	0.06	UJ	0.06	U	0.06	U	0.06	UJ	0.06	UR
72-54-8	4,4'-DDD	1.77	U	0.08	UJ	0.06	U	0.08	U	0.08	UJ	0.08	UR
1031-07-8	Endosulfan sulfate	1.4	U	0.06	UJ	0.124		0.138		0.06	UJ	0.06	UR
50-29-3	4,4'-DDT	1.79	U	0.08	UJ	0.08	U	0.08	U	0.08	UJ	0.08	UR
72-43-5	Methoxychlor	20.8	UJ	0.35	UJ	0.35	U	0.35	U	0.35	UJ	0.35	UR
53494-70-5	Endrin ketone	1.42	U	0.06	UJ	0.06	U	0.06	U	0.06	UJ	0.06	UR
7421-93-4	Endrin aldehyde	2.81	U	0.1	UJ	0.1	U	0.03	U	0.1	UJ	0.1	UR
5103-71-9	alpha-Chlordane	0.703	U	0.03	UJ	0.03	U	0.03	U	0.03	UJ	0.03	UR
5103-74-2	gamma-Chlordane	0.682	U	0.03	UJ	0.042		0.045		0.03	UJ	0.03	UR
8001-35-2	Toxaphene	163.	U	4.8	UJ	4.8	U	4.8	U	4.8	UJ	4.8	UR
12674-11-2	Aroclor-1016	35.1	U	0.2	UJ	0.2	U	0.2	U	0.2	UJ	0.2	UR
11104-28-2	Aroclor-1221	70.3	U	0.4	UJ	0.4	U	0.4	U	0.4	UJ	0.4	UR
11141-16-5	Aroclor-1232	35.1	U	0.2	UJ	0.2	U	0.2	U	0.2	UJ	0.2	UR
53469-21-9	Aroclor-1242	35.1	U	1.	UJ	1.	U	1.	U	1.	UJ	1.	UR
12672-29-6	Aroclor-1248	35.1	U	02	UJ	0.2	U	0.2	U	0.2	UJ	0.2	UR
11097-69-1	Aroclor-1254	35.1	U	0.2	UJ	0.2	U	0.2	U	0.2	UJ	0.2	UR
11096-82-5	Aroclor-1260	35.1	U	0.2	UJ	0.2	U	0.2	U	0.2	UJ	0.2	UR

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

PEST						
SAMPLE ID ------->	016-S-0001-04	016-S-0002-01	016-S-0002-05	016-S-0003-01	016-S-0003-03	016-S-0004-01
ORIGINAL ID ----->	016S000104	016S000201	016S000205	016S000301	016S000303	016S000401
LAB SAMPLE ID --->	5610-03	5610-04	5610-05	5613-02	5613-03	5610-06
ID FROM REPORT -->	016S000104	016S000201	016S000205	016S000301	016S000303	016S000401
SAMPLE DATE ----->	04/10/96	04/10/96	04/10/96	04/11/96	04/11/96	04/10/96
DATE EXTRACTED -->	04/15/96	04/15/96	04/15/96	04/17/96	04/17/96	04/15/96
DATE ANALYZED --->	04/18/96	04/18/96	04/19/96	04/21/96	04/21/96	04/18/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A

CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
319-84-6	alpha-BHC	0.761	U	0.76	U	0.744	U	0.76	U	0.896	U	0.751	U
319-85-7	beta-BHC	0.613	U	0.612	U	0.599	U	0.612	U	0.722	U	0.605	U
319-86-8	delta-BHC	0.729	UJ	0.728	UJ	0.713	UJ	0.729	UJ	0.859	UJ	0.72	UJ
58-89-9	gamma-BHC (Lindane)	0.835	U	0.834	U	0.816	U	0.834	U	0.983	U	0.824	U
76-44-8	Heptachlor	0.718	U	0.718	U	0.703	U	0.718	U	0.846	U	0.709	U
309-00-2	Aldrin	0.729	U	0.728	U	0.713	U	0.729	U	0.859	U	0.72	U
1024-57-3	Heptachlor epoxide	1.04	U	1.03	U	1.01	U	1.03	U	1.22	U	1.02	U
959-98-8	Endosulfan I	0.961	U	0.96	U	0.94	U	0.961	U	1.13	U	0.949	U
60-57-1	Dieldrin	1.78	U	1.77	U	1.74	U	1.77	U	2.09	U	1.75	U
72-55-9	4,4'-DDE	1.38	U	1.38	U	1.35	U	1.38	U	1.63	U	1.37	U
72-20-8	Endrin	1.72	U	1.72	U	1.68	U	1.72	U	2.03	U	1.7	U
33213-65-9	Endosulfan II	1.6	U	1.59	U	1.56	U	1.59	U	1.88	U	1.58	U
72-54-8	4,4'-DDD	1.75	U	1.75	U	1.72	U	1.75	U	2.07	U	1.73	U
1031-07-8	Endosulfan sulfate	1.38	U	1.38	U	1.35	U	1.38	U	1.63	U	1.37	U
50-29-3	4,4'-DDT	1.78	U	1.77	U	1.74	U	1.77	U	2.09	U	1.75	U
72-43-5	Methoxychlor	20.6	UJ	20.6	UJ	20.2	UJ	20.6	UJ	24.3	UJ	20.4	UJ
53494-70-5	Endrin ketone	1.4	U	1.4	U	1.37	U	1.4	U	3.15		1.39	U
7421-93-4	Endrin aldehyde	2.79	U	2.79	U	2.73	U	2.79	U	3.29	U	2.75	U
5103-71-9	alpha-Chlordane	0.697	U	0.696	U	0.682	U	0.697	U	0.822	U	0.688	U
5103-74-2	gamma-Chlordane	0.676	U	0.675	U	0.661	U	0.676	U	0.797	U	0.668	U
8001-35-2	Toxaphene	162.	U	161.	U	158.	U	162.	U	190.	U	160.	U
12674-11-2	Aroclor-1016	34.9	U	34.8	U	34.1	U	34.8	U	41.1	U	34.4	U
11104-28-2	Aroclor-1221	69.7	U	69.6	U	66.2	U	69.7	U	82.2	U	66.6	U
11141-16-5	Aroclor-1232	34.9	U	34.8	U	34.1	U	34.8	U	41.1	U	34.4	U
53469-21-9	Aroclor-1242	34.9	U	34.8	U	34.1	U	34.6	U	41.1	U	34.4	U
12672-29-6	Aroclor-1248	34.9	U	34.8	U	34.1	U	34.8	U	41.1	U	31.4	U
11097-69-1	Aroclor-1254	34.9	U	34.8	U	34.1	U	34.8	U	41.1	U	34.4	U
11096-82-5	Aroclor-1260	34.9	U	34.8	U	34.1	U	34.8	U	41.1	U	34.4	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

PEST													
	SAMPLE ID ------->	016-S-0004-05		016-S-0005-01		016-8-0005-01 MS		016-S-0005-01 MSD		016-C-0005-01		016-S-0005-05	
	ORIGINAL ID ----->	016S000405		016S000501		016S000501		016S000501		016C000501		016S000505	
	LAB SAMPLE ID --->	5610-07		5610-08		5610-08MS		5610-08MSD		5610-01		5610-09	
	ID FROM REPORT -->	016S000405		016S000501		016S000501		016S000501		016C000501		016S000505	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/15/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/18/96		04/19/96		04/19/96		04/18/96		04/19/96		04/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	E	UG/KG	E	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
319-84-6	alpha-BHC	0.804	U	0.836	U	0.835	U	0.836	U	0.82	U	0.762	U
319-85-7	beta-BHC	0.647	U	0.674	U	0.672	U	0.674	U	0.66	U	0.614	U
319-86-8	delta-BHC	0.77	UJ	0.801	UJ	0.8	U	0.801	U	0.786	UJ	0.731	UJ
58-89-9	gamma-BHC (Lindane)	0.882	U	0.917	U	12.9	XP	11.6	XP	0.899	U	0.837	U
76-44-8	Heptachlor	0.759	U	0.79	U	0.788	U	0.79	U	0.774	U	0.72	U
309-00-2	Aldrin	0.77	U	1.46	J	0.8	U	0.984		0.786	U	0.731	U
1024-57-3	Heptachlor epoxide	1.09	U	1.14	U	11.3	XP	12.6	XP	1.12	U	1.04	U
959-98-8	Endosulfan I	1.02	U	1.06	U	1.06	U	1.06	U	1.04	U	0.964	U
60-57-1	Dieldrin	1.68	U	1.95	U	24.9	XP	25.9	XP	3.38	J	1.78	U
72-55-9	4,4'-DDE	1.46	U	1.91	J	25.3	XP	27.	XP	2.78	J	1.39	U
72-20-8	Endrin	1.82	U	1.89	U	28.5	XP	29.6	XP	1.86	U	1.73	U
33213-65-9	Endosulfan II	1.68	U	4.47	J	2.72	P	2.88	P	1.72	U	1.6	U
72-54-8	4,4'-DDD	1.85	U	3.84	J	3.25	P	3.45	P	1.89	U	1.76	U
1031-07-8	Endosulfan sulfate	1.46	U	2.84	J	19.6	XP	19.7	XP	3.05	J	1.39	U
50-29-3	4,4'-DDT	1.88	U	6.96	J	5.04	P	5.32	P	6.92	J	1.78	U
72-43-5	Methoxychlor	21.8	UJ	22.7	UJ	22.6	U	22.7	U	22.2	UJ	20.7	UJ
53494-70-5	Endrin ketone	1.48	U	1.54	U	1.54	U	1.54	U	1.51	U	1.41	U
7421-93-4	Endrin aldehyde	2.95	U	3.07	U	3.06	U	3.07	U	3.01	U	2.8	U
5103-71-9	alpha-Chlordane	0.737	U	0.766	U	0.765	U	0.766	U	0.751	U	0.699	U
5103-74-2	gamma-Chlordane	0.714	U	0.743	U	10.4	XP	11.3	XP	0.729	U	0.678	U
8001-35-2	Toxaphene	171.	U	178.	U	177.	U	178.	U	174.	U	162.	U
12674-11-2	Aroclor-1016	36.8	U	38.3	U	38.3	U	38.3	U	37.6	U	34.9	U
11104-28-2	Aroclor-1221	73.7	U	76.6	U	76.5	U	76.6	U	75.1	U	69.9	U
11141-16-5	Aroclor-1232	36.8	U	38.3	U	38.3	U	38.3	U	37.6	U	34.9	U
53469-21-9	Aroclor-1242	36.8	U	38.3	U	38.3	U	38.3	U	37.6	U	34.9	U
12672-29-6	Aroclor-1248	36.8	U	38.3	U	38.3	U	38.3	U	31.6	U	34.9	U
11097-69-1	Aroclor-1254	36.8	U	30.3	U	38.3	U	38.3	U	37.6	U	34.9	U
11096-82-5	Aroclor-1260	36.8	U	38.3	U	38.3	U	38.3	U	37.6	U	34.9	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

PEST															
	SAMPLE ID ------->	016-S-0006-01		016-S-0006-07		016-S-0007-01		016-5-0007-01		016-6-0007-01		016-S-0007-06	
	ORIGINAL ID ----->	016S000601		016S000607		016S000701		0165000701		0166000701		016S000706	
	LAB SAMPLE ID --->	5610-10		5610-11		5610-12		5602-11RE		5602-12RE		5610-13	
	ID FROM REPORT -->	016S000601		016S000607		016S000701		0165000701		0166000701		016S000706	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/01/96		04/01/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/15/96		04/06/96		04/06/96		04/15/96	
	DATE ANALYZED --->	04/18/96		04/18/96		04/18/96		04/10/96		04/10/96		04/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	B	UG/KG	B	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
319-84-6	alpha-BHC	0.741	U	0.754	U	0.757	U	0.793	U	0.72	U	0.748	U
319-85-7	beta-BHC	0.597	U	0.607	U	0.61	U	0.639	U	0.58	U	0.602	U
319-86-8	delta-BHC	0.71	UJ	0.722	UJ	0.726	UJ	0.76	U	0.69	U	0.716	UJ
58-89-9	gamma-BHC (Lindane)	0.813	U	0.827	U	0.831	U	0.87	U	0.79	U	0.82	U
76-44-8	Heptachlor	0.7	U	0.712	U	0.715	U	0.749	U	0.68	U	0.706	U
309-00-2	Aldrin	0.71	U	0.722	U	0.726	U	0.76	U	0.69	U	0.716	U
1024-57-3	Heptachlor epoxide	1.01	U	1.03	U	1.03	U	1.08	U	0.98	U	1.02	U
959-98-8	Endosulfan I	0.936	U	0.953	U	0.957	U	1.	U	0.91	U	0.945	U
60-57-1	Dieldrin	1.73	U	1.76	U	1.77	U	1.85	U	1.68	U	1.74	U
72-55-9	4,4'-DDE	1.35	U	1.37	U	1.38	U	1.44	U	1.51	U	1.36	U
72-20-8	Endrin	1.68	U	1.71	U	1.71	U	1.79	U	1.63	U	1.69	U
33213-65-9	Endosulfan II	1.55	U	1.58	U	1.59	U	1.66	U	1.51	U	1.57	U
72-54-8	4,4'-DDD	1.71	U	1.74	U	1.75	U	1.83	U	1.66	U	1.72	U
1031-07-8	Endosulfan sulfate	1.35	U	1.37	U	1.38	U	1.44	U	1.31	U	1.36	U
50-29-3	4,4'-DDT	1.73	U	1.76	U	1.77	U	1.85	U	1.68	U	1.74	U
72-43-5	Methoxychlor	20.1	UJ	20.4	UJ	20.5	UJ	21.5	UJ	19.5	UJ	20.3	UJ
53494-70-5	Endrin ketone	1.37	U	1.39	U	1.4	U	1.46	U	1.33	U	1.38	U
7421-93-4	Endrin aldehyde	2.72	U	2.76	U	2.78	U	2.91	U	2.64	U	2.74	U
5103-71-9	alpha-Chlordane	0.679	U	0.691	U	0.694	U	0.727	U	0.66	U	0.685	U
5103-74-2	gamma-Chlordane	0.659	U	0.67	U	0.673	U	0.705	U	0.64	U	0.665	U
8001-35-2	Toxaphene	157.	U	160.	U	161.	U	168.	U	153.	U	159.	U
12674-11-2	Aroclor-1016	34.	U	34.6	U	34.7	U	36.3	U	33.	U	34.3	U
11104-28-2	Aroclor-1221	67.9	U	69.1	U	69.4	U	72.7	U	66.	U	68.5	U
11141-16-5	Aroclor-1232	34.	U	34.6	U	34.7	U	36.3	U	33.	U	34.3	U
53469-21-9	Aroclor-1242	34.	U	34.6	U	34.7	U	3.36	U	33.	U	34.3	U
12672-29-6	Aroclor-1248	34.	U	34.6	U	34.7	U	36.3	U	33.	U	34.3	U
11097-69-1	Aroclor-1254	34.	U	34.6	U	34.7	U	36.3	U	33.	U	34.3	U
11096-82-5	Aroclor-1260	34.	U	34.6	U	34.7	U	36.3	U	33.	U	34.3	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

PEST													
	SAMPLE ID ------->	016-S-0008-01		016-S-0008-07		016-S-0008-12		016-S-0009-01		016-S-0009-07		016-S-0010-01	
	ORIGINAL ID ----->	016S000801		016S000807		016S000812		016S000901		016S000907		016S001001	
	LAB SAMPLE ID --->	5610-14		5610-15		5610-16		5610-17		5610-18		5613-04	
	ID FROM REPORT -->	016S000801		016S000807		016S000812		016S000901		016S000907		016S001001	
	SAMPLE DATE ----->	04/101%		04/10/96		04/10/96		04/10/96		04/10/96		04/11/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/15/96		04/15/96		04/15/96		04/17/96	
	DATE ANALYZED --->	04/18/96		04/18/96		04/19/96		04/19/96		04/19/96		04/21/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
319-84-6	alpha-BHC	0.74	U	0.763	U	0.751	U	0.748	U	0.789	U	0.764	U
319-85-7	beta-BHC	0.5%	U	0.614	U	0.605	U	0.602	U	0.636	U	0.615	U
319-86-8	delta-BHC	0.71	UJ	0.731	UJ	0.719	UJ	0.717	UJ	0.756	UJ	0.732	UJ
58-89-9	gamma-BHC (Lindane)	0.812	U	0.837	U	0.824	U	0.821	U	0.866	U	0.838	U
76-44-8	Heptachlor	0.699	U	0.72	U	0.709	U	0.706	U	0.745	U	0.721	U
309-00-2	Aldrin	0.71	U	0.731	U	0.719	U	0.717	U	0.756	U	0.732	U
1024-57-3	Heptachlor epoxide	1.01	U	1.04	U	1.02	U	1.02	U	1.07	U	1.04	U
959-98-8	Endosulfan I	0.936	U	0.964	U	0.919	U	0.945	U	0.997	U	0.965	U
60-57-1	Dieldrin	1.73	U	1.78	U	1.75	U	1.74	U	1.84	U	1.78	U
72-55-9	4,4'-DDE	1.35	U	1.39	U	1.37	U	1.36	U	1.44	U	1.39	U
72-20-8	Endrin	1.68	U	1.73	U	1.7	U	1.69	U	1.79	U	1.73	U
33213-65-9	Endosulfan II	1.55	U	1.6	U	1.57	U	1.57	U	1.65	U	1.6	U
72-54-8	4,4'-DDD	1.71	U	1.76	U	1.73	U	1.72	U	1.82	U	1.76	U
1031-07-8	Endosulfan sulfate	1.35	U	1.39	U	1.37	U	1.36	U	1.44	U	1.39	U
50-29-3	4,4'-DDT	1.73	U	1.78	U	1.75	U	1.74	U	1.84	U	1.78	U
72-43-5	Methoxychlor	20.1	UJ	20.7	UJ	20.3	UJ	20.3	UJ	21.4	UJ	20.7	UJ
53494-70-5	Endrin ketone	1.37	U	1.41	U	1.39	U	1.38	U	1.46	U	1.41	U
7421-93-4	Endrin aldehyde	2.71	U	2.8	U	2.75	U	2.74	U	2.89	U	2.8	U
5103-71-9	alpha-Chlordane	0.679	U	0.699	U	0.688	U	0.686	U	0.723	U	0.7	U
5103-74-2	gamma-Chlordane	0.658	U	0.678	U	0.667	U	0.665	U	0.701	U	0.679	U
8001-35-2	Toxaphene	157.	U	162.	U	160.	U	159.	U	168.	U	162.	U
12674-11-2	Aroclor-1016	33.9	U	35.	U	34.4	U	34.3	U	36.2	U	35.	U
11104-28-2	Aroclor-1221	67.9	U	69.9	U	68.8	U	68.6	U	72.3	U	70.	U
11141-16-5	Aroclor-1232	33.9	U	35.	U	34.4	U	34.3	U	36.2	U	35.	U
53469-21-9	Aroclor-1242	33.9	U	35.	U	34.4	U	34.3	U	36.2	U	35.	U
12672-29-6	Aroclor-1248	33.9	U	35.	U	34.4	U	34.3	U	36.2	U	35.	U
11097-69-1	Aroclor-1254	33.9	U	35.	U	34.4	U	34.3	U	36.2	U	35.	U
11096-82-5	Aroclor-1260	33.9	U	35.	U	34.4	U	34.3	U	36.2	U	35.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

PEST																	
	SAMPLE ID ------->	016-C-0010-01		016-S-0010-04		016-S-0010-04 MS		016-S-0010-04 MSD		016-S-0011-01		016-S-0011-04	
	ORIGINAL ID ----->	016C001001		0168001004		016S001004		016S001004		016S001101		016S001104	
	LAB SAMPLE ID --->	5613-01		5613-05		5613-05MS		5613-05MSD		5613-06		5613-07	
	ID FROM REPORT -->	016C001001		016S001004		016S001004		016S001004		016S001101		016S001104	
	SAMPLE DATE ----->	04/11/96		04/11/96		04/10/96		04/10/96		04/11/96		04/11/96	
	DATE EXTRACTED -->	04/17/96		04/17/96		04/17/96		04/17/96		04/17/96		04/17/96	
	DATE ANALYZED --->	04/21/96		04/21/96		04/21/96		04/22/96		04/22/96		04/22/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	E	UG/KG	E	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
319-84-6	alpha-BHC	0.762	U	0.754	U	0.755	U	0.754	U	0.763	U	0.751	U
319-85-7	beta-BHC	0.614	U	0.608	U	0.603	U	0.607	U	0.615	U	0.605	U
319-86-8	delta-BHC	0.73	UJ	0.723	UJ	0.724	U	0.723	U	0.731	UJ	0.719	UJ
58-89-9	gamma-BHC (Lindane)	0.836	U	0.828	U	14.	X	14.5	X	0.837	U	0.824	U
76-44-8	Heptachlor	0.72	U	0.713	U	0.714	U	0.712	U	0.721	U	0.709	U
309-00-2	Aldrin	0.73	U	0.723	U	0.724	U	0.723	U	0.731	U	0.719	U
1024-57-3	Heptachlor epoxide	1.04	U	1.03	U	13.7	X	14.3	X	1.04	U	1.02	U
959-98-8	Endosulfan I	0.963	U	0.954	U	0.955	U	0.953	U	0.964	U	0.949	U
60-57-1	Dieldrin	1.78	U	1.76	U	28.7	X	30.5	X	1.78	U	1.75	U
72-55-9	4,4'-DDE	1.39	U	1.37	U	28.6	X	29.7	X	1.39	U	1.37	U
72-20-8	Endrin	1.73	U	1.71	U	31.	X	33.	X	1.73	U	1.7	U
33213-65-9	Endosulfan II	1.6	U	1.58	U	1.58	U	1.58	U	1.6	U	1.57	U
72-54-8	4,4'-DDD	1.76	U	1.74	U	1.74	U	1.74	U	1.74	U	1.73	U
1031-07-8	Endosulfan sulfate	1.39	U	1.37	U	5.69	X	18.9	XP	1.39	U	1.37	U
50-29-3	4,4'-DDT	1.78	U	1.76	U	1.76	U	1.76	U	1.78	U	1.75	U
72-43-5	Methoxychlor	20.7	UJ	20.4	UJ	20.5	U	20.4	U	20.7	UJ	20.3	UJ
53494-70-5	Endrin ketone	1.41	U	1.39	U	1.4	U	1.39	U	1.41	U	1.39	U
7421-93-4	Endrin aldehyde	2.79	U	2.77	U	2.77	U	2.76	U	2.8	U	2.75	U
5103-71-9	alpha-Chlordane	0.699	U	0.692	U	0.692	U	0.691	U	0.699	U	0.688	U
5103-74-2	gamma-Chlordane	0.678	U	0.671	U	12.8	X	14.3	X	0.678	U	0.667	U
8001-35-2	Toxaphene	162.	U	160.	U	160.	U	160.	U	162.	U	160.	U
12674-11-2	Aroclor-1016	34.9	U	34.6	U	34.6	U	34.6	U	35.	U	34.4	U
11104-28-2	Aroclor-1221	69.9	U	69.2	U	69.2	U	69.1	U	69.9	U	68.8	U
11141-16-5	Aroclor-1232	34.9	U	34.6	U	34.6	U	U.6	U	35.	U	34.4	U
53469-21-9	Aroclor-1242	34.9	U	34.6	U	34.6	U	34.6	U	35.	U	34.4	U
12672-29-6	Aroclor-1248	w.9	U	34.6	U	34.6	U	34.6	U	35.	U	34.4	U
11097-69-1	Aroclor-1254	34.9	U	34.6	U	34.6	U	34.6	U	35.	U	34.4	U
11096-82-5	Aroclor-1260	34.9	U	34.6	U	34.6	U	34.6	U	35.	U	34.4	U

*** validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

PEST															
	SAMPLE ID ------->	016-S-0012-01		016-S-0012-05		016-G-GS01-01		016-G-GS02-01		016-G-GS03-01		016-G-GS04-01	
	ORIGINAL ID ----->	016S001201		016S001205		016GGS0101		016GGS0201		016GGS0301		0166650401	
	LAB SAMPLE ID --->	5610-19		5610-20		5659-01		5659-02		5659-03		5659-04	
	ID FROM REPORT -->	016S001201		016S001205		016GGS0101		016GGS0201		016GGS0301		016GGS0401	
	SAMPLE DATE ----->	04/10/96		04/10/96		05/09/96		05/09/96		05/09/96		05/09/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		05/15/96		05/15/96		05/15/96		05/15/96	
	DATE ANALYZED --->	04/19/96		04/19/96		05/22/96		05/22/96		05/23/96		05/22/96	
	MATRIX ---------->	Soil		Soil		Water		Water		Water		Water	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL
319-84-6	alpha-BHC	0.758	U	0.854	U	0.04	UJ	0.04	UJ	0.04	UJ	0.04	UJ
319-85-7	beta-BHC	0.611	U	0.688	U	0.03	U	0.03	U	0.03	U	0.03	U
319-86-8	delta-BHC	0.726	UJ	0.819	UJ	0.03	U	0.03	U	0.03	U	0.03	U
58-89-9	gamma-BHC (Lindane)	0.832	U	0.938	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.716	U	0.807	U	0.04	U	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.726	U	0.819	U	0.05	U	0.05	U	0.05	U	0.05	U
1024-57-3	Heptachlor epoxide	1.03	U	1.16	U	0.03	U	0.03	U	0.03	U	0.03	U
959-98-8	Endosulfan I	0.951	U	1.08	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	1.77	U	1.99	U	0.08	U	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	1511	U	1.55	U	0.06	U	0.06	U	0.06	U	0.06	U
72-20-8	Endrin	1.72	U	1.93	U	0.1	U	0.1	U	0.1	U	0.1	U
33213-65-9	Endosulfan II	1.59	U	1.79	U	0.06	U	0.06	U	0.06	U	0.06	U
72-54-8	4,4'-DDD	1.75	U	1.97	U	0.08	U	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	1.38	U	1.55	U	0.06	U	0.06	U	0.06	U	0.06	U
50-29-3	4,4'-DDT	1.77	U	1.99	U	0.08	U	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	20.5	UJ	23.2	UJ	0.35	UJ	0.35	UJ	0.35	UJ	0.35	UJ
53494-70-5	Endrin ketone	1.4	U	1.58	U	0.06	U	0.06	U	0.06	U	0.06	U
7421-93-4	Endrin aldehyde	2.78	U	3.13	U	0.1	U	0.1	U	0.1	U	0.1	U
5103-71-9	alpha-Chlordane	0.6%	U	0.783	U	0.03	U	0.03	U	0.03	U	0.03	U
5103-74-2	gamma-Chlordane	0.674	U	0.76	U	0.03	U	0.03	U	4.03	U	0.03	U
8001-35-2	Toxaphene	161.	U	182.	U	4.8	U	4.8	U	4.8	U	4.8	U
12674-11-2	Aroclor-1016	34.7	U	39.2	U	0.2	U	0.2	U	0.2	U	0.2	U
11104-28-2	Aroclor-1221	69.5	U	78.3	U	0.4	U	0.4	U	0.4	U	0.4	U
11141-16-5	Aroclor-1232	34.7	U	39.2	U	0.2	U	0.2	U	0.2	U	0.2	U
53469-21-9	Aroclor-1242	34.7	U	39.2	U	1.	U	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	34.7	U	39.2	U	0.2	U	0.2	U	0.2	U	0.2	U
11097-69-1	Aroclor-1254	34.7	U	39.2	U	0.2	U	0.2	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	34.7	U	39.2	U	0.2	U	0.2	U	0.2	U	0.2	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

PEST											
	SAMPLE ID ------->	016-G-GS05-01		016-G-GS05-01 RE		016-G-GS06-01		016-G-GS07-01		016-G-GS08-01	
	ORIGINAL ID ----->	016GGS0501		016GGS0501		016GGS0601		016GGS0701		016GGS0801	
	LAB SAMPLE ID --->	5659-05		5659-05RX		5657-01		5657-02		5657-03	
	ID FROM REPORT -->	016GGS0501		016GGS0501		016GGS0601		016GGS0701		016GGS0801	
	SAMPLE DATE ----->	05/09/96		05/09/96		05/08/96		05/08/96		05/08/96	
	DATE EXTRACTED -->	05/15/96		05/24/96		05/15/96		05/15/96		05/15/96	
	DATE ANALYZED --->	05/23/06		05/30/96		05/22/96		05/22/96		05/22/96	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	C	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL
319-84-6	alpha-BHC	0.04	UJ	0.04	UR	0.04	UJ	0.04	UJ	0.04	UJ
319-85-7	beta-BHC	0.05	U	0.03	UR	0.03	U	0.03	U	0.03	U
319-86-8	delta-BHC	0.03	U	0.03	UR	0.03	U	0.03	U	0.03	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	UR	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.04	U	0.04	UR	0.04	U	0.04	U	0.04	U
309-00-2	Aldrin	0.05	U	0.05	UR	0.05	U	0.05	U	0.05	U
1024-57-3	Heptachlor epoxide	0.03	U	0.03	UR	0.03	U	0.03	U	0.03	U
959-98-8	Endosulfan I	0.04	U	0.04	UR	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.08	U	0.08	UR	0.08	U	0.08	U	0.08	U
72-55-9	4,4'-DDE	0.06	U	0.06	UR	0.06	U	0.06	U	0.06	U
72-20-8	Endrin	0.1	U	0.1	UR	0.1	U	0.1	U	0.1	U
33213-65-9	Endosulfan II	0.06	U	0.06	UR	0.06	U	0.06	U	0.06	U
72-54-8	4,4'-DDD	0.08	U	0.08	UR	0.08	U	0.08	U	0.08	U
1031-07-8	Endosulfan sulfate	0.06	U	0.06	UR	0.06	U	0.06	U	0.06	U
50-29-3	4,4'-DDT	0.08	U	0.08	UR	0.08	U	0.08	U	0.08	U
72-43-5	Methoxychlor	0.35	UJ	0.35	UR	0.35	UJ	0.35	UJ	0.35	UJ
53494-70-5	Endrin ketone	0.06	U	0.06	UR	0.06	U	0.06	U	0.06	U
7421-93-4	Endrin aldehyde	0.1	U	0.1	UR	0.1	U	0.1	U	0.1	U
5103-71-9	alpha-Chlordane	0.03	U	0.03	UR	0.03	U	0.03	U	0.03	U
5103-74-2	gamma-Chlordane	0.03	tf	0.03	UR	0.03	U	0.03	U	0.03	U
8001-35-2	Toxaphene	4.0	U	4.8	UR	4.8	U	4.8	U	4.8	U
12674-11-2	Aroclor-1016	0.2	U	0.2	UR	0.2	U	0.2	U	0.2	U
11104-28-2	Aroclor-1221	0.4	U	0.4	UR	0.4	U	0.4	U	0.4	U
11141-16-5	Aroclor-1232	0.2	U	0.2	UR	0.2	U	0.2	U	0.2	U
53469-21-9	Aroclor-1242	1.	U	1.	UR	1.	U	1.	U	1.	U
12672-29-6	Aroclor-1248	0.2	U	0.2	UR	0.2	U	0.2	U	0.2	U
11097-69-1	Aroclor-1254	0.2	U	0.2	UR	0.2	U	0.2	U	0.2	U
11096-82-5	Aroclor-1260	0.2	U	0.2	UR	0.2	U	0.2	U	0.2	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA															
	SAMPLE ID ------->	016-S-0001-01		016-W-0001-01		016-W-0001-01 MS		016-W-0001-01 MSD		016-R-0001-01		016-S-0001-04	
	ORIGINAL ID ----->	016S000101		016W000101		016W000101		016W000101		016R000101		016S000104	
	LAB SAMPLE ID --->	5610-02		5671-06		5671-06MS		5671-06MSD		5671-04		5610-03	
	ID FROM REPORT -->	016S000101		016W000101		016W000101		016W000101		016R000101		016S000104	
	SAMPLE DATE ----->	04/10/96		05/14/96		05/14/96		05/14/96		05/14/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		05/20/96		05/20/96		05/20/96				04/15/96	
	DATE ANALYZED --->	04/15/96		05/23/96		05/23/96		05/23/96		05/23/96		04/15/96	
	MATRIX ---------->	Soil		Water		Water		Water		Water		Soil	
	UNITS ---------->	UG/KG	A	UG/L	A	UG/L	D	UG/L	D	UG/L	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL	SITE16	VAL
108-95-2	Phenol	37.	U	1.	U	33.		32.		1.	U	37.	U
111-44-4	bis(2-Chloroethyl)ether	54.	U	0.7	U	16.		15.		0.7	U	54.	U
95-57-8	2-Chlorophenol	37.	U	1.	U	32.		31.		1.	U	36.	U
95-48-7	2-Methylphenol (o-Cresol)	34.	U	0.9	U	0.9	U	0.9	U	0.9	U	34.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	31.	U	0.8	U	0.8	U	0.8	U	0.8	U	30.	U
106-44-5	4-Methylphenol (p-Cresol)	37.	U	1.	U	1.	U	1.	U	1.	U	37.	U
621-64-7	N-Nitroso-di-n-propylamine	61.	U	0.9	U	15.		14.		0.9	U	61.	U
67-72-1	Hexachloroethane	79.	U	1.	U	14.		14.		1.	U	78.	U
98-95-3	Nitrobenzene	38.	U	1.	U	1.	U	1.	U	1.	U	38.	U
78-59-1	Isophorone	36.	U	0.8	U	14.		13.		0.8	U	36.	U
88-75-5	2-Nitrophenol	34.	U	1.	U	1.	U	1.	U	1.	U	34.	U
105-67-9	2,4-Dimethylphenol	40.	U	2.	U	2.	U	2.	U	2.	U	40.	U
111-91-1	bis(2-Chloroethoxy)methane	37.	U	1.	U	1.	U	1.	U	1.	U	37.	U
120-83-2	2,4-Dichlorophenol	67.	U	1.	U	1.	U	1.	U	1.	U	66.	U
120-82-1	1,2,4-Trichlorobenzene	36.	U	0.8	U	14.		14.		0.8	U	36.	U
91-20-3	Naphthalene	36.	U	0.9	U	16.		15.		0.9	U	36.	U
106-47-8	4-Chloroaniline	44.	U	9.	U	11.		12.		9.	U	44.	U
87-68-3	Hexachlorobutadiene	41.	U	1.	U	1.	U	1.	U	1.	U	41.	U
59-50-7	4-Chloro-3-methylphenol	30.	U	1.	U	1.	U	1.	U	1.	U	30.	U
91-57-6	2-Methylnaphthalene	35.	U	1.	U	1.	U	1.	U	1.	U	35.	U
77-47-4	Hexachlorocyclopentadiene	130.	U	1.	U	1.	U	1.	U	1.	U	130.	U
88-06-2	2,4,6-Trichlorophenol	31.	U	1.	U	28.		28.		1.	U	3i.	U
95-95-4	2,4,5-Trichlorophenol	44.	U	1.	U	1.	U	1.	U	1.	U	43.	U
91-58-7	2-Chloronaphthalene	38.	U	1.	U	1.	U	1.	U	1.	U	38.	U
88-74-4	2-Nitroaniline	31.	U	1.	U	1.	U	1.	U	1.	U	30.	U
131-11-3	Dimethyl phthalate	36.	U	1.	U	1.	U	1.	U	1.	U	36.	U
208-96-8	Acenaphthylene	14.	J	1.	U	1.	U	1.	U	1.	U	38.	U
606-20-2	2,6-Dinitrotoluene	39.	U	1.	U	1.	U	1.	U	1.	U	39.	U
99-09-2	3-Nitroaniline	41.	U	4.	U	4.	U	4.	U	4.	U	41.	U
83-32-9	Acenaphthene	25.	U	1.	U	1.	U	1.	U	1.	U	24.	U
51-28-5	2,4-Dinitrophenol	160.	UJ	15.	U	15.	U	15.	U	15.	U	160.	UJ
100-02-7	4-Nitrophenol	200.	U	2.	U	2.	U	2.	U	2.	U	200.	U
132-64-9	Dibenzofuran	26.	U	1.	U	1.	U	1.	U	1.	U	26.	U
121-14-2	2,4-Dinitrotoluene	28.	U	2.	U	13.		15.		2.	U	28.	U
84-66-2	Diethylphthalate	32.	U	2.	U	15.		15.		2.	U	32.	U
7005-72-3	4-Chlorophenylphenylether	37.	U	1.	U	1.	U	1.	U	1.	U	37.	U

*** Validation Complete +++

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA															
	SAMPLE ID ------->	016-S-0001-01		016-W-0001-01		016-W-0001-01 MS		016-W-0001-01 MSD		016-R-0001-01		016-S-0001-04	
	ORIGINAL ID ----->	016S000101		016W000101		016W000101		016W000101		016R000101		016S000104	
	LAB SAMPLE ID --->	5610-02		5671-06		5671-06MS		5671-06MSD		5671-04		5610-03	
	ID FROM REPORT -->	016S000101		016W000101		016W000101		016W000101		016R000101		016S000104	
	SAMPLE DATE ----->	04/10/96		05/14/96		05/14/96		05/14/96		05/14/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		05/20/96		05/20/96		05/20/96				04/15/96	
	DATE ANALYZED --->	04/15/96		05/23/96		05/23/96		05/23/96		05/23/96		04/15/96	
	MATRIX ---------->	Soil		Water		Water		Water		Water		Soil	
	UNITS ---------->	UG/KG	A	UG/L	A	UG/L	D	UG/L	D	UG/L	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL	SITE16	VAL
86-73-7	Fluorene	36.	U	2.	U	2.	U	2.	U	2.	U	36.	U
100-01-6	4-Nitroaniline	46.	U	2.	UJ	2.	U	2.	U	2.	UJ	46.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	180.	U	2.	U	2.	U	2.	U	2.	U	180.	U
86-30-6	N-Nitrosodiphenylamine	37.	U	2.	U	12.		14.		2.	U	37.	U
101-55-3	4-Bromophenyl-phenylether	61.	U	2.	U	2.	U	2.	U	2.	U	60.	U
118-74-1	Hexachlorobenzene	50.	U	2.	U	13.		14.		2.	U	50.	U
87-86-5	Pentachlorophenol	130.	U	2.	U	2.	U	2.	U	2.	U	130.	U
85-01-8	Phenanthrene	34.	U	1.	U	1.	U	1.	U	1.	U	34.	U
120-12-7	Anthracene	37.	U	1.	U	1.	U	1.	U	1.	U	36.	U
86-74-8	Carbazole	41.	U	2.	U	2.	U	2.	U	2.	U	41.	U
84-74-2	Di-n-butylphthalate	40.	U	2.	U	2.	U	2.	U	2.	U	40.	U
206-44-0	Fluoranthene	34.	J	1.	U	1.	U	1.	U	1.	U	38.	U
129-00-0	Pyrene	43.		1.	U	1.	U	1.	U	1.	U	38.	U
85-68-7	Butylbenzylphthalate	34.	U	3.		3.	U	3.	U	3.	U	34.	U
91-94-1	3,3'-Dichlorobenzidine	100.	U	9.	U	9.	U	9.	U	9.	U	100.	U
56-55-3	Benzo(a)anthracene	50.	U	1.	U	1.	U	1.	U	1.	U	50.	U
218-01-9	Chrysene	40.	U	1.	U	1.	U	1.	U	1.	U	39.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	52.	U	2.	U	2.	U	2.	U	2.	U	52.	U
117-84-0	Di-n-octyl phthalate	42.	U	2.	U	2.	U	2.	U	2.	U	42.	U
205-99-2	Benzo(b)fluoranthene	51.	J	2.	U	2.	U	2.	U	2.	U	82.	U
207-08-9	Benzo(k)fluoranthene	29.	J	4.	U	4.	U	4.	U	4.	U	54.	U
50-32-8	Benzo(a)pyrene	37.	J	1.	U	6.		9.		1.	U	50.	U
193-39-5	Indeno(1,2,3-cd)pyrene	51.	U	1.	U	1.	U	1.	U	1.	U	51.	U
53-70-3	Dibenz(a,h)anthracene	42.	U	1.	U	1.	U	1.	U	1.	U	42.	U
191-24-2	Benzo(g,h,i)perylene	42.	U	1.	U	1.	U	1.	U	1.	U	41.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA													
	SAMPLE ID ------->	016-S-0002-01		016-S-0002-05		016-S-0003-01		016-S-0003-03		016-S-0004-01		016-S-0004-05	
	ORIGINAL ID ----->	016S000201		016S000205		016S000301		016S000303		016S000401		016S000405	
	LAB SAMPLE ID --->	5610-04		5610-05		5613-02		5613-03		5610-06		5610-07	
	ID FROM REPORT -->	016S000201		016S000205		016S000301		016S000303		016S000401		016S000405	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/11/96		04/11/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/16/96		04/16/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/15/96		04/15/96		04/18/96		04/18/96		04/15/96		04/16/96	
	MATRIX ---------->	soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
108-95-2	Phenol	37.	U	36.	U	36.	U	43.	U	36.	U	39.	U
111-44-4	bis(2-Chloroethyl)ether	54.	U	53.	U	54.	U	64.	U	53.	U	57.	U
95-57-8	2-Chlorophenol	36.	U	36.	U	36.	U	43.	U	36.	U	39.	U
95-48-7	2-Methylphenol (o-Cresol)	34.	U	33.	U	34.	U	40.	U	33.	U	36.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	30.	U	30.	U	30.	U	36.	U	30.	U	32.	U
106-44-5	4-Methylphenol (p-Cresol)	37.	U	36.	U	37.	U	44.	U	37.	U	39.	U
621-64-7	N-Nitroso-di-n-propylamine	61.	U	59.	U	60.	U	71.	U	60.	U	64.	U
67-72-1	Hexachloroethane	78.	U	76.	U	78.	U	92.	U	77.	U	82.	U
98-95-3	Nitrobenzene	38.	U	37.	U	38.	U	45.	U	37.	U	40.	U
78-59-1	Isophorone	36.	U	35.	U	36.	U	42.	U	35.	U	38.	U
88-75-5	2-Nitrophenol	34.	U	33.	U	34.	U	40.	U	34.	U	36.	U
105-67-9	2,4-Dimethylphenol	40.	U	39.	U	40.	U	47.	U	39.	U	42.	U
111-91-1	bis(2-Chloroethoxy)methane	37.	U	36.	U	36.	U	43.	U	36.	U	39.	U
120-83-2	2,4-Dichlorophenol	66.	U	65.	U	66.	U	78.	U	65.	U	70.	U
120-82-1	1,2,4-Trichlorobenzene	36.	U	35.	U	36.	U	42.	U	36.	U	38.	U
91-20-3	Naphthalene	36.	U	35.	U	36.	U	42.	U	36.	U	38.	U
106-47-8	4-Chloroaniline	44.	U	43.	U	44.	U	52.	U	43.	U	46.	U
87-68-3	Hexachlorobutadiene	41.	U	40.	U	41.	U	48.	U	41.	U	43.	U
59-50-7	4-Chloro-3-methylphenol	30.	U	29.	U	30.	U	35.	U	29.	U	32.	U
91-57-6	2-Methylnaphthalene	35.	U	34.	U	35.	U	41.	U	34.	U	37.	U
77-47-4	Hexachlorocyclopentadiene	130.	U	120.	U	130.	U	150.	U	130.	U	130.	U
88-06-2	2,4,6-Trichlorophenol	31.	U	30.	U	31.	U	36.	U	30.	U	33.	U
95-95-4	2,4,5-Trichlorophenol	43.	U	42.	U	43.	U	51.	U	43.	U	46.	U
91-58-7	2-Chloronaphthalene	38.	U	37.	U	38.	U	45.	U	38.	U	40.	U
88-74-4	2-Nitroaniline	30.	U	30.	U	30.	U	36.	U	30.	U	32.	U
131-11-3	Dimethyl phthalate	36.	U	35.	U	36.	U	42.	U	35.	U	38.	U
208-96-8	Acenaphthylene	38.	U	37.	U	37.	U	44.	U	37.	U	40.	U
606-20-2	2,6-Dinitrotoluene	39.	U	38.	U	38.	U	45.	U	38.	U	41.	U
99-09-2	3-Nitroaniline	41.	U	40.	U	41.	U	48.	U	40.	U	43.	U
83-32-9	Acenaphthene	24.	U	24.	U	24.	U	29.	U	24.	U	26.	U
51-28-5	2,4-Dinitrophenol	160.	UJ	160.	UJ	160.	U	190.	U	160.	UJ	170.	UJ
100-02-7	4-Nitrophenol	200.	U	190.	U	200.	U	230.	U	200.	U	210.	U
132-64-9	Dibenzofuran	26.	U	26.	U	26.	U	31.	U	26.	U	28.	U
121-14-2	2,4-Dinitrotoluene	28.	U	27.	U	28.	U	32.	U	27.	U	29.	U
84-66-2	Diethylphthalate	32.	U	31.	U	32.	U	38.	U	32.	U	34.	U
7005-72-3	4-Chlorophenylphenylether	37.	U	36.	U	37.	U	43.	U	36.	U	39.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA															
	SAMPLE ID ------->	016-S-0002-01		016-S-0002-05		016-S-0003-01		016-S-0003-03		016-S-0004-01		016-S-0004-05	
	ORIGINAL ID ----->	016S000201		0168000205		016S000301		016S000303		016S000401		016S000405	
	LAB SAMPLE ID --->	5610-04		5610-05		5613-02		5613-03		5610-06		5610-07	
	ID FROM REPORT -->	016S000201		0165000205		016S000301		016S000303		016S000401		016S000405	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/11/96		04/11/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/16/96		04/16/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/15/96		04/15/96		04/18/96		04/18/96		04/15/96		04/16/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
86-73-7	Fluorene	36.	U	35.	U	36.	U	42.	U	35.	U	38.	U
100-01-6	4-Nitroaniline	46.	U	45.	U	46.	U	54.	U	46.	U	49.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	180.	U	170.	U	180.	U	210.	U	180.	U	190.	U
86-30-6	N-Nitrosodiphenylamine	37.	U	36.	U	37.	U	43.	U	36.	U	39.	U
101-55-3	4-Bromophenyl-phenylether	60.	U	59.	U	60.	U	71.	U	60.	U	64.	U
118-74-1	Hexachlorobenzene	49.	U	48.	U	49.	U	58.	U	49.	U	52.	U
87-86-5	Pentachlorophenol	130.	U	130.	U	130.	U	160.	U	130.	U	140.	U
85-01-8	Phenanthrene	34.	U	34.	U	34.	U	40.	U	34.	U	36.	U
120-12-7	Anthracene	36.	U	36.	U	36.	U	43.	U	36.	U	38.	U
86-74-8	Carbazole	41.	U	40.	U	41.	U	48.	U	41.	U	44.	U
84-74-2	Di-n-butylphthalate	40.	U	39.	U	40.	U	47.	U	40.	U	42.	U
206-44-0	Fluoranthene	38.	U	37.	U	38.	U	45.	U	38.	U	40.	U
129-00-0	Pyrene	38.	U	37.	U	38.	U	45.	U	38.	U	40.	U
85-68-7	Butylbenzylphthalate	34.	U	33.	U	33.	U	51.		33.	U	35.	U
91-94-1	3,3'-Dichlorobenzidine	100.	U	100.	U	100.	U	120.	U	100.	U	110.	U
56-55-3	Benzo(a)anthracene	49.	U	48.	U	49.	U	58.	U	49.	U	52.	U
218-01-9	Chrysene	39.	U	39.	U	39.	U	46.	U	39.	U	42.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	52.	U	50.	U	51.	U	61.	U	51.	U	55.	U
117-84-0	Di-n-octyl phthalate	42.	U	41.	U	41.	U	49.	U	41.	U	44.	U
205-99-2	Benzo(b)fluoranthene	82.	U	81.	U	82.	U	97.	U	81.	U	87.	U
207-08-9	Benzo(k)fluoranthene	54.	U	53.	U	54.	U	63.	U	53.	U	57.	U
50-32-8	Benzo(a)pyrene	50.	U	49.	U	50.	U	59.	U	50.	U	53.	U
193-39-5	Indeno(1,2,3-cd)pyrene	50.	U	50.	U	50.	U	60.	U	50.	U	53.	U
53-70-3	Dibenz(a,h)anthracene	42.	U	4%.	U	42.	U	49.	U	41.	U	44.	U
191-24-2	Benzo(g,h,i)perylene	41.	U	40.	U	41.	U	49.	U	41.	U	44.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA															
	SAMPLE ID ------->	016-S-0005-01		016-C-0005-01		016-S-0005-05		016-S-0006-01		016-t-0006-07		016-S-0007-01	
	ORIGINAL ID ----->	016S000501		016C000501		016S000505		016S000601		016S000607		016S000701	
	LAB SAMPLE ID --->	5610-08		5610-01		5610-09		5610-10		5610-11		5610-12	
	ID FROM REPORT -->	016S000501		016C000501		016S000505		016S000601		016S000607		016S000701	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/15/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/15/96		04/15/96		04/15/96		04/15/96		04/15/96		04/15/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
108-95-2	Phenol	40.	U	39.	U	37.	U	36.	U	36.	U	36.	U
111-44-4	bis(2-Chloroethyl)ether	59.	U	58.	U	54.	U	53.	U	54.	U	54.	U
95-57-8	2-Chlorophenol	40.	U	39.	U	37.	U	36.	U	36.	U	36.	U
95-48-7	2-Methylphenol (o-Cresol)	37.	U	36.	U	34.	U	33.	U	33.	U	33.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	33.	U	33.	U	30.	U	30.	U	30.	U	30.	U
106-44-5	4-Methylphenol (p-Cresol)	41.	U	40.	U	37.	U	36.	U	37.	U	37.	U
621-64-7	N-Nitroso-di-n-propylamine	66.	U	65.	U	61.	U	59.	U	60.	U	60.	U
67-72-1	Hexachloroethane	86.	U	84.	U	78.	U	76.	U	77.	U	78.	U
98-95-3	Nitrobenzene	42.	U	41.	U	38.	U	37.	U	37.	U	38.	U
78-59-1	Isophorone	39.	U	38.	U	36.	U	35.	U	33.	U	36.	U
88-75-5	2-Nitrophenol	37.	U	37.	U	34.	U	33.	U	34.	U	34.	U
105-67-9	2,4-Dimethylphenol	44.	U	43.	U	40.	U	39.	U	39.	U	40.	U
111-91-1	bis(2-Chloroethoxy)methane	40.	U	39.	U	37.	U	36.	U	36.	U	36.	U
120-83-2	2,4-Dichlorophenol	73.	U	71.	U	66.	U	64.	U	65.	U	66.	U
120-82-1	1,2,4-Trichlorobenzene	39.	U	39.	U	36.	U	35.	U	36.	U	36.	U
91-20-3	Naphthalene	39.	U	39.	U	36.	U	35.	U	36.	U	36.	U
106-47-8	4-Chloroaniline	48.	U	47.	U	44.	U	43.	U	43.	U	44.	U
87-68-3	Hexachlorobutadiene	45.	U	44.	U	41.	U	40.	U	41.	U	41.	U
59-50-7	4-Chloro-3-methylphenol	33.	U	32.	U	30.	U	29.	U	30.	U	30.	U
91-57-6	2-Methylnaphthalene	27.	J	32.	J	35.	U	34.	U	34.	U	35.	U
77-47-4	Hexachlorocyclopentadiene	140.	U	140.	U	130.	U	120.	U	130.	U	130.	U
88-06-2	2,4,6-Trichlorophenol	34.	U	33.	U	31.	U	30.	U	31.	U	31.	U
95-95-4	2,4,5-Trichlorophenol	48.	U	47.	U	43.	U	42.	U	43.	U	43.	U
91-58-7	2-Chloronaphthalene	42.	U	41.	U	38.	U	37.	U	38.	U	38.	U
88-74-4	2-Nitroaniline	33.	U	33.	U	30.	U	30.	U	30.	U	30.	U
131-11-3	Dimethyl phthalate	39.	U	39.	U	36.	U	35.	U	35.	U	36.	U
208-96-8	Acenaphthylene	41.	U	17.	J	38.	U	37.	U	37.	U	37.	U
606-20-2	2,6-Dinitrotoluene	42.	U	42.	U	39.	U	38.	U	38.	U	3.	U
99-09-2	3-Nitroaniline	45.	U	44.	U	41.	U	40.	U	40.	U	41.	U
83-32-9	Acenaphthene	27.	U	25.	J	24.	U	24.	U	24.	U	24.	U
51-28-5	2,4-Dinitrophenol	180.	UJ	180.	UJ	160.	U	160.	U	160.	U	160.	U
100-02-7	4-Nitrophenol	220.	U	210.	U	200.	U	190.	U	200.	U	200.	U
132-64-9	Dibenzofuran	29.	U	28.	U	26.	U	26.	U	26.	U	26.	U
121-14-2	2,4-Dinitrotoluene	30.	U	30.	U	28.	U	27.	U	27.	U	27.	U
84-66-2	Diethylphthalate	35.	U	34.	U	32.	U	31.	U	32.	U	32.	U
7005-72-3	4-Chlorophenylphenylether	40.	U	40.	U	37.	U	36.	U	36.	U	37.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA													
	SAMPLE ID ------->	016-S-0005-01		016-C-0005-01		016-S-0005-05		016-S-0006-01		016-S-0006-07		016-S-0007-01	
	ORIGINAL ID ----->	016S000501		016C000501		016S000505		016S000601		016S000607		016S000701	
	LAB SAMPLE ID --->	5610-08		5610-01		5610-09		5610-10		5610-11		5610-12	
	ID FROM REPORT -->	016S000501		016C000501		016S000505		016S000601		016S000607		016S000701	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/15/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/15/96		04/15/96		04/15/96		04/15/96		04/15/96		04/15/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
86-73-7	Fluorene	9.	J	35.	J	36.	U	35.	U	35.	U	36.	U
100-01-6	4-Nitroaniline	51.	U	50.	U	46.	U	45.	U	46.	U	46.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	200.	U	190.	U	180.	U	170.	U	180.	U	180.	U
86-30-6	N-Nitrosodiphenylamine	40.	U	40.	U	37.	U	36.	U	36.	U	37.	U
101-55-3	4-Bromophenyl-phenylether	66.	U	65.	U	60.	U	59.	U	60.	U	60.	U
118-74-1	Hexachlorobenzene	54.	U	53.	U	50.	U	48.	U	49.	U	49.	U
87-86-5	Pentachlorophenol	150.	U	140.	U	130.	U	130.	U	130.	U	130.	U
85-01-8	Phenanthrene	160.		430.		34.	U	33.	U	34.	U	34.	U
120-12-7	Anthracene	22.	J	50.		36.	U	35.	U	36.	U	36.	U
86-74-8	Carbazole	17.	J	44.	U	41.	U	40.	U	41.	U	41.	U
84-74-2	Di-n-butylphthalate	44.	U	93.		40.	U	39.	U	40.	U	40.	U
206-44-0	Fluoranthene	200.		410.		38.	U	37.	U	38.	U	38.	U
129-00-0	Pyrene	300.		530.		38.	U	37.	U	38.	U	38.	U
85-68-7	Butylbenzylphthalate	93.		36.	U	34.	U	33.	U	33.	U	33.	U
91-94-1	3,3'-Dichlorobenzidine	110.	U	110.	U	100.	U	100.	U	100.	U	100.	U
56-55-3	Benzo(a)anthracene	110.		180.		50.	U	48.	U	49.	U	49.	U
218-01-9	Chrysene	200.		390.		40.	U	38.	U	39.	U	39.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	290.		150.		52.	U	50.	U	51.	U	51.	U
117-84-0	Di-n-octyl phthalate	46.	U	45.	U	42.	U	40.	U	41.	U	41.	U
205-99-2	Benzo(b)fluoranthene	170.		240.		83.	U	80.	U	82.	U	82.	U
207-08-9	Benzo(k)fluoranthene	81.		160.		54.	U	52.	U	53.	U	53.	U
50-32-8	Benzo(a)pyrene	99.		180.		50.	U	49.	U	50.	U	50.	U
193-39-5	Indeno(1,2,3-cd)pyrene	89.		100.		51.	U	49.	U	50.	U	50.	U
53-70-3	Dibenz(a,h)anthracene	46.	U	45.	U	42.	U	41.	U	41.	U	41.	U
191-24-2	Benzo(g,h,i)perylene	110.		120.		41.	U	40.	U	41.	U	41.	U

*** Validation Complete **+

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA													
	SAMPLE ID ------->	016-5-0007-01		016-6-0007-01		016-S-0007-06		016-S-0008-01		016-S-0008-07		016-S-0008-12	
	ORIGINAL ID ----->	0165000701		0166000701		016S000706		016S000801		016S000807		016S000812	
	LAB SAMPLE ID --->	5602-11		5602-12		5610-13		5610-14		5610-15		5610-16	
	ID FROM REPORT -->	0165000701		0166000701		016S000706		016S000801		016S000807		016S000812	
	SAMPLE DATE ----->	04/01/96		04/01/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/06/96		04/06/96		04/15/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/09/96		04/09/96		04/15/96		04/15/96		04/15/96		04/16/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	B	UG/KG	B	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
108-95-2	Phenol	38.	U	35.	U	36.	U	36.	U	37.	U	36.	U
111-44-4	bis(2-Chloroethyl)ether	56.	U	51.	U	53.	U	53.	U	54.	U	53.	U
95-57-8	2-Chlorophenol	38.	U	34.	U	36.	U	36.	U	37.	U	36.	U
95-48-7	2-Methylphenol (o-Cresol)	35.	U	32.	U	33.	U	33.	U	34.	U	33.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	32.	U	29.	U	30.	U	30.	U	30.	U	30.	U
106-44-5	4-Methylphenol (p-Cresol)	39.	U	35.	U	36.	U	36.	U	37.	U	36.	U
621-64-7	N-Nitroso-di-n-propylamine	63.	U	57.	U	60.	U	59.	U	61.	U	60.	U
67-72-1	Hexachloroethane	81.	U	74.	U	77.	U	76.	U	78.	U	77.	U
98-95-3	Nitrobenzene	39.	U	36.	U	37.	U	37.	U	38.	U	37.	U
78-59-1	Isophorone	37.	U	34.	U	35.	U	35.	U	36.	U	35.	U
88-75-5	2-Nitrophenol	35.	U	32.	U	33.	U	33.	U	34.	U	33.	U
105-67-9	2,4-Dimethylphenol	42.	U	38.	U	39.	U	39.	U	40.	U	39.	U
111-91-1	bis(2-Chloroethoxy)methane	38.	U	35.	U	36.	U	36.	U	37.	U	36.	U
120-83-2	2,4-Dichlorophenol	69.	U	62.	U	65.	U	64.	U	66.	U	65.	U
120-82-1	1,2,4-Trichlorobenzene	38.	U	34.	U	35.	U	35.	U	36.	U	35.	U
91-20-3	Naphthalene	38.	U	34.	U	35.	U	35.	U	36.	U	35.	U
106-47-8	4-Chloroaniline	46.	U	41.	U	43.	U	43.	U	44.	U	43.	U
87-68-3	Hexachlorobutadiene	43.	U	39.	U	40.	U	40.	U	41.	U	40.	U
59-50-7	4-Chloro-3-methylphenol	31.	U	28.	U	29.	U	29.	U	30.	U	29.	U
91-57-6	2-Methylnaphthalene	36.	U	33.	U	34.	U	34.	U	35.	U	34.	U
77-47-4	Hexachlorocyclopentadiene	130.	U	120.	U	120.	U	120.	U	130.	U	120.	U
88-06-2	2,4,6-Trichlorophenol	32.	U	29.	U	30.	U	30.	U	31.	U	30.	U
95-95-4	2,4,5-Trichlorophenol	45.	U	41.	U	43.	U	42.	U	43.	U	43.	U
91-58-7	2-Chloronaphthalene	40.	U	36.	U	37.	U	37.	U	38.	U	37.	U
88-74-4	2-Nitroaniline	32.	U	29.	U	30.	U	30.	U	30.	U	30.	U
131-11-3	Dimethyl phthalate	37.	U	34.	U	35.	U	35.	U	36.	U	35.	U
208-96-8	Acenaphthylene	3%.	U	35.	U	37.	U	37.	U	38.	U	37.	U
606-20-2	2,6-Dinitrotoluene	40.	U	36.	U	38.	U	38.	U	39.	U	38.	U
99-09-2	3-Nitroaniline	43.	U	39.	U	40.	U	40.	U	41.	U	40.	U
83-32-9	Acenaphthene	25.	U	23.	U	24.	U	24.	U	24.	U	24.	U
51-28-5	2,4-Dinitrophenol	170.	U	150.	U	160.	U	160.	U	160.	U	160.	U
100-02-7	4-Nitrophenol	210.	U	190.	U	200.	U	190.	U	200.	U	200.	U
132-64-9	Dibenzofuran	27.	U	25.	U	26.	U	26.	U	26.	U	26.	U
121-14-2	2,4-Dinitrotoluene	29.	U	26.	U	27.	U	27.	U	28.	U	27.	U
84-66-2	Diethylphthalate	33.	U	30.	U	31.	U	31.	U	32.	U	31.	U
7005-72-3	4-Chlorophenylphenylether	38.	U	35.	U	36.	U	36.	U	37.	U	36.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA													
	SAMPLE ID ------->	016-5-0007-01		016-6-0007-01		016-S-0007-06		016-S-0008-01		016-S-0008-07		016-S-0008-12	
	ORIGINAL ID ----->	0165000701		0166000701		016S000706		016S000801		016S000807		016S000812	
	LAB SAMPLE ID --->	5602-11		5602-12		5610-13		5610-14		5610-15		5610-16	
	ID FROM REPORT -->	0165000701		0166000701		016S000706		016S000801		016S000807		016S000812	
	SAMPLE DATE ----->	04/01/96		04/01/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/06/96		04/06/96		04/15/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/09/96		04/09/96		04/15/96		04/15/96		04/15/96		04/16/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	B	UG/KG	B	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
86-73-7	Fluorene	37.	U	34.	U	35.	U	35.	U	36.	U	35.	U
100-01-6	4-Nitroaniline	48.	U	44.	U	45.	U	45.	U	46.	U	45.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	190.	U	170.	U	180.	U	170.	U	180.	U	180.	U
86-30-6	N-Nitrosodiphenylamine	38.	U	35.	U	36.	U	36.	U	37.	U	36.	U
101-55-3	4-Bromophenyl-phenylether	63.	U	57.	U	59.	U	59.	U	60.	U	59.	U
118-74-1	Hexachlorobenzene	52.	U	47.	U	49.	U	48.	U	50.	U	49.	U
87-86-5	Pentachlorophenol	[illegible]	U	130.	U	130.	U	130.	U	130.	U	130.	U
85-01-8	Phenanthrene	36.	U	[illegible]	U	34.	U	33.	U	34.	U	34.	U
120-12-7	Anthracene	38.	U	[illegible]	U	36.	U	35.	U	36.	U	36.	U
86-74-8	Carbazole	43.	U	39.	U	40.	U	40.	U	41.	U	41.	U
[illegible]	[illegible]1-n-b[illegible]	42.		38.	U	39.	U	39.	U	40.	U	40.	U
[illegible]	[illegible]	[illegible]	U	[illegible]	[illegible]	38.	U	37.	U	38.	U	38.	U
129-00-0	Pyrene	40.	U	36.	U	37.	U	37.	U	38.	U	38.	U
85-68-7	Butylbenzylphthalate	35.	U	32.	U	33.	U	33.	U	34.	U	33.	U
91-94-1	3,3'-Dichlorobenzidine	110.	U	98.	U	100.	U	100.	U	100.	U	100.	U
56-55-3	Benzo(a)anthracene	52.	U	47.	U	49.	U	48.	U	50.	U	49.	U
218-01-9	Chrysene	41.	U	37.	U	39.	U	38.	U	40.	U	39.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	54.	U	49.	U	51.	U	50.	U	52.	U	51.	U
117-84-0	[illegible] n-octyl phthalate	43.	J	[illegible]	U	41.	U	40.	U	42.	U	41.	U
205-99-2	Benzo(b)fluoranthene	[illegible]		78.	U	81.	U	80.	U	82.	U	81.	U
207-08-9	Benzo(k)fluoranthene	56.	U	51.	U	53.	U	52.	U	54.	U	53.	U
50-32-8	Benzo(a)pyrene	52.	U	47.	U	49.	U	49.	U	50.	U	50.	U
193-39-5	Indeno(1,2,3-cd)pyrene	53.	U	48.	U	50.	U	49.	U	51.	U	50.	U
53-70-3	Dibenz(a,h)anthracene	43.	U	39.	U	41.	U	41.	U	42.	U	41.	U
191-24-2	Benzo(g,h,i)perylene	43.	U	39.	U	41.	U	40.	U	41.	U	41.	U

*** Validation Complete +**

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA													
	SAMPLE ID ------->	016-S-0009-01		016-S-0009-07		016-S-0010-01		016-C-0010-01		016-S-0010-04		016-S-0011-01	
	ORIGINAL ID ----->	016S000901		016S000907		016S001001		016C001001		016S001004		016S001101	
	LAB SAMPLE ID --->	5610-17		5610-18		5613-04		5613-01		5613-05		5613-06	
	ID FROM REPORT -->	016S000901		016S000907		016S001001		016C001001		016S001004		016S001101	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/11/96		04/11/96		04/11/96		04/11/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/16/96		04/16/96		04/16/96		04/16/96	
	DATE ANALYZED --->	04/16/96		04/16/96		04/18/96		04/17/96		04/18/96		04/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
108-95-2	Phenol	36.	U	38.	U	37.	U	37.	U	36.	U	37.	U
111-44-4	bis(2-Chloroethyl)ether	53.	U	56.	U	54.	U	54.	U	54.	U	54.	U
95-57-8	2-Chlorophenol	36.	U	38.	U	36.	U	37.	U	36.	U	36.	U
95-48-7	2-Methylphenol (o-Cresol)	33.	U	35.	U	34.	U	34.	U	33.	U	34.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	30.	U	31.	U	30.	U	30.	U	30.	U	30.	U
106-44-5	4-Methylphenol (p-Cresol)	36.	U	38.	U	37.	U	37.	U	37.	U	37.	U
621-64-7	N-Nitroso-di-n-propylamine	60.	U	63.	U	61.	U	61.	U	60.	U	61.	U
67-72-1	Hexachloroethane	77.	U	81.	U	78.	U	78.	U	77.	U	78.	U
98-95-3	Nitrobenzene	37.	U	39.	U	38.	U	38.	U	38.	U	38.	U
78-59-1	Isophorone	35.	U	37.	U	36.	U	36.	U	35.	U	36.	U
88-75-5	2-Nitrophenol	33.	U	35.	U	34.	U	34.	U	34.	U	34.	U
105-67-9	2,4-Dimethylphenol	39.	U	41.	U	40.	U	40.	U	40.	U	40.	U
111-91-1	bis(2-Chloroethoxy)methane	36.	U	38.	U	37.	U	37.	U	36.	U	37.	U
120-83-2	2,4-Dichlorophenol	65.	U	68.	U	66.	U	66.	U	66.	U	66.	U
120-82-1	1,2,4-Trichlorobenzene	35.	U	37.	U	36.	U	36.	U	36.	U	36.	U
91-20-3	Naphthalene	35.	U	37.	U	36.	U	36.	U	36.	U	36.	U
106-47-8	4-Chloroaniline	43.	U	45.	U	44.	U	44.	U	44.	U	44.	U
87-68-3	Hexachlorobutadiene	40.	U	42.	U	41.	U	41.	U	41.	U	41.	U
59-50-7	4-Chloro-3-methylphenol	29.	U	31.	U	30.	U	30.	U	30.	U	30.	U
91-57-6	2-Methylnaphthalene	34.	U	36.	U	35.	U	35.	U	34.	U	35.	U
77-47-4	Hexachlorocyclopentadiene	120.	U	130.	U	130.	U	130.	U	130.	U	130.	U
88-06-2	2,4,6-Trichlorophenol	30.	U	32.	U	31.	U	31.	U	31.	U	31.	U
95-95-4	2,4,5-Trichlorophenol	43.	U	45.	U	43.	U	43.	U	43.	U	43.	U
91-58-7	2-Chloronaphthalene	37.	U	39.	U	38.	U	38.	U	38.	U	38.	U
88-74-4	2-Nitroaniline	30.	U	31.	U	30.	U	30.	U	30.	U	30.	U
131-11-3	Dimethyl phthalate	35.	U	37.	U	36.	U	36.	U	36.	U	36.	U
208-96-8	Acenaphthylene	37.	U	39.	U	38.	U	38.	U	37.	U	38.	U
606-20-2	2,6-Dinitrotoluene	38.	U	40.	U	39.	U	39.	U	38.	U	39.	U
99-09-2	3-Nitroaniline	40.	U	42.	U	41.	U	41.	U	41.	U	41.	U
83-32-9	Acenaphthene	24.	U	25.	U	24.	U	24.	U	24.	U	24.	U
51-28-5	2,4-Dinitrophenol	160	I	170.	U	160.	U	160.	U	160.	U	160.	U
100-02-7	4-Nitrophenol	190.	U	200.	U	200.	U	200.	U	200.	U	200.	U
132-64-9	Dibenzofuran	26.	U	27.	U	26.	U	26.	U	26.	U	26.	U
121-14-2	2,4-Dinitrotoluene	27.	U	29.	U	28.	U	28.	U	27.	U	28.	U
84-66-2	Diethylphthalate	31.	U	33.	U	32.	U	32.	U	32.	U	32.	U
7005-72-3	4-Chlorophenylphenylether	36.	U	38.	U	37.	U	37.	U	37.	U	37.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA													
	SAMPLE ID ------->	016-S-0009-01		016-S-0009-07		016-S-0010-01		016-C-0010-01		016-S-0010-04		016-S-0011-01	
	ORIGINAL ID ----->	016S000901		016S000907		016S001001		016C001001		016S001004		016S001101	
	LAB SAMPLE ID --->	5610-17		~~5610-18~~		5613-04		5613-01		5613-05		5613-06	
	ID FROM REPORT -->	016S000901		016S000907		016S001001		016C001001		016S001004		016S001101	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/11/96		04/11/96		04/11/96		04/11/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/16/96		04/16/96		04/16/96		04/16/96	
	DATE ANALYZED --->	04/16/96		04/16/96		04/18/96		04/17/96		04/18/96		04/18/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
86-73-7	Fluorene	35.	U	37.	U	36.	U	36.	U	35.	U	36.	U
100-01-6	4-Nitroaniline	45.	U	48.	U	46.	U	46.	U	46.	U	46.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	180.	U	180.	U	180.	U	180.	U	180.	U	180.	U
86-30-6	N-Nitrosodiphenylamine	36.	U	38.	U	37.	U	37.	U	36.	U	37.	U
101-55-3	4-Bromophenyl-phenylether	59.	U	62.	U	60.	U	60.	U	60.	U	60.	U
118-74-1	Hexachlorobenzene	49.	U	51.	U	50.	U	50.	U	49.	U	50.	U
87-86-5	Pentachlorophenol	130.	U	140.	U	130.	U	130.	U	130.	U	130.	U
85-01-8	Phenanthrene	34.	U	36.	U	34.	U	34.	U	34.	U	34.	U
120-12-7	Anthracene	36.	U	38.	U	36.	U	36.	U	36.	U	36.	U
86-74-8	Carbazole	40.	U	43.	U	41.	U	41.	U	41.	U	41.	U
84-74-2	Di-n-butylphthalate	39.	U	42.	U	40.	U	40.	U	40.	U	40.	U
206-44-0	Fluoranthene	38.	U	40.	U	38.	U	38.	U	38.	U	38.	U
129-00-0	Pyrene	37.	U	39.	U	38.	U	38.	U	38.	U	38.	U
85-68-7	Butylbenzylphthalate	33.	U	35.	U	34.	U	79.		33.	U	34.	U
91-94-1	3,3'-Dich[illegible]benzidine	100.	U	110.	U	100.	U	100.	U	100.	U	100.	U
56-55-3	Benzo(a)anthracene	49.	U	51.	U	50.	U	50.	U	49.	U	50.	U
218-01-9	Chrysene	39.	U	41.	U	39.	U	40.	U	39.	U	39.	U
117-81-7	bis(2-Ethylhexyl [illegible] (BEHP)	51.	U	53.	U	52.	U	52.	U	51.	U	52.	U
117-84-0	Di-n-octyl phthalate	41.	U	43.	U	42.	U	42.	U	41.	U	42.	U
205-99-2	Benzo(b)fluoranthene	81.	U	85.	U	82.	U	83.	U	82.	U	82.	U
207-08-9	Benzo(k)fluoranthene	53.	U	56.	U	54.	U	54.	U	53.	U	54.	U
50-32-8	Benzo(a)pyrene	49.	U	52.	U	50.	U	50.	U	50.	U	50.	U
193-39-5	Indeno(1,2,3-cd)pyrene	50.	U	52.	U	51.	U	51.	U	50.	U	51.	U
53-70-3	Dibenz(a,h)anthracene	41.	U	43.	U	42.	U	42.	U	41.	U	42.	U
191-24-2	Benzo(g,h,i)perylene	41.	U	43.	U	41.	U	41.	U	41.	U	41.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA															
	SAMPLE ID ------->	016-S-0011-04		016-S-0012-01		016-S-0012-05		016-G-GS01-01		016-G-GS02-01		016-G-GS03-01	
	ORIGINAL ID ----->	016S001104		016S001201		016S001205		016GGS0101		016GGS0201		016GGS0301	
	LAB SAMPLE ID --->	5613-07		5610-19		5610-20RX		5659-01		5659-02		5659-03	
	ID FROM REPORT -->	016S001104		016S001201		016S001205		016GGS0101		016GGS0201		016GGS0301	
	SAMPLE DATE ----->	04/11/96		04/10/96		04/10/96		05/09/96		05/09/96		05/09/96	
	DATE EXTRACTED -->	04/16/96		04/15/96		04/16/96		05/15/96		05/15/96		05/15/96	
	DATE ANALYZED --->	04/18/96		04/16/96		04/17/96		05/22/96		05/22/96		05/22/96	
	MATRIX ---------->	soil		Soil		Soil		Water		Water		Water	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL
108-95-2	Phenol	36.	U	36.	U	41.	U	1.	U	1.	U	1.	U
111-44-4	bis(2-Chloroethyl)ether	53.	U	54.	U	61.	U	0.7	U	0.7	U	0.7	U
95-57-8	2-Chlorophenol	36.	U	36.	U	41.	U	1.	U	1.	U	1.	U
95-48-7	2-Methylphenol (o-Cresol)	33.	U	34.	U	38.	U	0.9	U	0.9	U	0.9	U
108-60-1	2,2'-oxybis(1-Chloropropane)	30.	U	30.	U	34.	U	0.8	U	0.8	U	0.8	U
106-44-5	4-Methylphenol (p-Cresol)	36.	U	31.	U	42.	U	1.	U	1.	U	1.	U
621-64-7	N-Nitroso-di-n-propylamine	60.	U	60.	U	68.	U	0.9	U	0.9	U	0.9	U
67-72-1	Hexachloroethane	78.	U	78.	U	88.	U	1.	U	1.	U	1.	U
98-95-3	Nitrobenzene	37.	U	38.	U	42.	U	1.	U	1.	U	1.	U
78-59-1	Isophorone	35.	U	36.	U	40.	U	0.8	U	0.8	U	0.8	U
88-75-5	2-Nitrophenol	33.	U	34.	U	38.	U	1.	U	1.	U	1.	U
105-67-9	2,4-Dimethylphenol	39.	U	40.	U	45.	U	2.	U	2.	U	2.	U
111-91-1	bis(2-Chloroethoxy)methane	36.	U	36.	U	41.	U	1.	U	1.	U	1.	U
120-83-2	2,4-Dichlorophenol	65.	U	66.	U	74.	U	1.	U	1.	U	1.	U
120-82-1	1,2,4-Trichlorobenzene	35.	U	36.	U	40.	U	0.8	U	0.8	U	0.8	U
91-20-3	Naphthalene	35.	U	36.	U	40.	U	0.9	U	0.9	U	0.9	U
106-47-8	4-Chloroaniline	43.	U	44.	U	49.	U	9.	U	9.	U	9.	U
87-68-3	Hexachlorobutadiene	40.	U	41.	U	46.	U	1.	U	1.	U	1.	U
59-50-7	4-Chloro-3-methylphenol	29.	U	30.	U	33.	U	1.	U	1.	U	1.	U
91-57-6	2-Methylnaphthalene	34.	U	35.	U	39.	U	1.	U	1.	U	1.	U
77-47-4	Hexachlorocyclopentadiene	120.	U	130.	U	140.	U	1.	U	1.	U	1.	U
88-06-2	2,4,6-Trichlorophenol	30.	U	31.	U	35.	U	1.	U	1.	U	1.	U
95-95-4	2,4,5-Trichlorophenol	43.	U	43.	U	49.	U	1.	U	1.	U	1.	U
91-58-7	2-Chloronaphthalene	37.	U	38.	U	43.	U	1.	U	1.	U	1.	U
88-74-4	2-Nitroaniline	30.	U	30.	U	34.	U	1.	U	1.	U	1.	U
131-11-3	Dimethyl phthalate	35.	U	36.	U	40.	U	1.	U	1.	U	1.	U
208-96-8	Acenaphthylene	37.	U	37.	U	42.	U	1.	U	1.	U	1.	U
606-20-2	2,6-Dinitrotoluene	38.	U	38.	U	43.	U	1.	U	1.	U	1.	U
99-09-2	3-Nitroaniline	40.	U	41.	U	46.	U	4.	U	4.	U	4.	U
83-32-9	Acenaphthene	24.	U	24.	U	27.	U	1.	U	1.	U	1.	U
51-28-5	2,4-Dinitrophenol	160.	U	160.	U	180.	U	15.	U	15.	U	15.	U
100-02-7	4-Nitrophenol	200.	U	200.	U	220.	U	2.	U	2.	U	2.	U
132-64-9	Dibenzofuran	26.	U	26.	U	30.	U	1.	U	1.	U	1.	U
121-14-2	2,4-Dinitrotoluene	27.	U	28.	U	31.	U	2.	U	2.	U	2.	U
84-66-2	Diethylphthalate	31.	U	32.	U	36.	U	2.	U	2.	U	2.	U
7005-72-3	4-Chlorophenylphenylether	36.	U	37.	U	41.	U	1.	U	1.	U	1.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA													
	SAMPLE ID ------->	016-S-0011-04		016-S-0012-01		016-S-0012-05		016-G-GS01-01		016-G-GS02-01		016-G-GS03-01	
	ORIGINAL ID ----->	016S001104		016S001201		016S001205		016GGS0101		016GGS0201		016GGS0301	
	LAB SAMPLE ID --->	5613-07		5610-19		5610-20RX		5659-01		5659-02		5659-03	
	ID FROM REPORT -->	016S001104		016S001201		016S001205		016GGS0101		016GGS0201		016GGS0301	
	SAMPLE DATE ----->	04/11/96		04/10/96		04/10/96		05/09/96		05/09/96		05/09/96	
	DATE EXTRACTED -->	04/16/96		04/15/96		04/16/96		05/15/96		05/15/96		05/15/96	
	DATE ANALYZED --->	04/18/96		04/16/96		04/17/96		05/22/96		05/22/96		05/22/96	
	MATRIX ---------->	Soil		Soil		Soil		Water		Water		Water	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL
86-73-7	Fluorene	35.	U	36.	U	40.	U	2.	U	2.	U	2.	U
100-01-6	4-Nitroaniline	45.	U	46.	U	52.	U	2.	U	2.	U	2.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	180.	U	180.	U	200.	U	2.	U	2.	U	2.	U
86-30-6	N-Nitrosodiphenylamine	36.	U	37.	U	41.	U	2.	U	2.	U	2.	U
101-55-3	4-Bromophenyl-phenylether	59.	U	60.	U	68.	U	2.	U	2.	U	2.	U
118-74-1	Hexachlorobenzene	49.	U	49.	U	56.	U	2.	U	2.	U	2.	U
87-86-5	Pentachlorophenol	130.	U	130.	U	150.	U	2.	U	2.	U	2.	U
85-01-8	Phenanthrene	34.	U	34.	U	38.	U	1.	U	1.	U	1.	U
120-12-7	Anthracene	36.	U	36.	U	41.	U	1.	U	1.	U	1.	U
86-74-8	Carbazole	41.	U	41.	U	46.	U	2.	U	2.	U	2.	U
84-74-2	Di-n-butylphthalate	40.	U	40.	U	45.	U	2.	U	2.	U	2.	U
206-44-0	Fluoranthene	38.	U	38.	U	43.	U	1.	U	1.	U	1.	U
129-00-0	Pyrene	38.	U	38.	U	43.	U	1.	U	1.	U	1.	U
85-68-7	Butylbenzylphthalate	33.	U	33.	U	38.	U	3.	U	3.	U	3.	U
91-94-1	3,3'-Dichlorobenzidine	100.	U	100.	U	120.	U	9.	U	9.	U	9.	U
56-55-3	Benzo(a)anthracene	49.	U	49.	U	56.	U	1.	U	1.	U	1.	U
218-01-9	Chrysene	39.	U	39.	U	44.	U	1.	U	1.	U	1.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	51.	U	51.	U	58.	U	2.	U	2.	U	2.	U
117-84-0	Di-n-octyl phthalate	41.	U	41.	U	47.	U	2.	U	2.	U	2.	U
205-99-2	Benzo(b)fluoranthene	81.	U	82.	U	92.	U	2.	U	2.	U	2.	U
207-08-9	Benzo(k)fluoranthene	53.	U	54.	U	60.	U	4.	U	4.	U	4.	U
50-32-8	Benzo(a)pyrene	50.	U	50.	U	56.	U	1.	U	1.	U	1.	U
193-39-5	Indeno(1,2,3-cd)pyrene	50.	U	50.	U	57.	U	1.	U	1.	U	1.	U
53-70-3	Dibenz(a,h)anthracene	41.	U	42.	U	47.	U	1.	U	1.	U	1.	U
191-24-2	Benzo(g,h,i)perylene	41.	U	41.	U	46.	U	1.	U	1.	U	1.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA											
	SAMPLE ID ------->	016-G-GS04-01		016-G-GS05-01		016-G-GS06-01		016-G-GS07-01		016-G-GS08-01	
	ORIGINAL ID ----->	016GGS0401		016GGS0501		016GGS0601		016GGS0701		016GGS0801	
	LAB SAMPLE ID --->	5659-04		5659-05		5657-01		5657-02		5657-03	
	ID FROM REPORT -->	016GGS0401		016GGS0501		016GGS0601		016GGS0701		016GGS0801	
	SAMPLE DATE ----->	05/09/96		05/09/96		05/08/96		05/08/96		05/08/96	
	DATE EXTRACTED -->	05/15/96		05/15/96		05/15/96		05/15/96		05/15/96	
	DATE ANALYZED --->	05/22/96		05/22/96		05/21/96		05/21/96		05/21/96	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL
108-95-2	Phenol	1.	U	1.	U	1.	U	1.	U	1.	U
111-44-4	bis(2-Chloroethyl)ether	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
95-57-8	2-Chlorophenol	1.	U	1.	U	1.	U	1.	U	1.	U
95-48-7	2-Methylphenol (o-Cresol)	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
108-60-1	2,2'-oxybis(1-Chloropropane)	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
106-44-5	4-Methylphenol (p-Cresol)	1.	U	1.	U	1.	U	1.	U	1.	U
621-64-7	N-Nitroso-di-n-propylamine	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
67-72-1	Hexachloroethane	1.	U	1.	U	1.	U	1.	U	1.	U
98-95-3	Nitrobenzene	1.	U	1.	U	1.	U	1.	U	1.	U
78-59-1	Isophorone	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
88-75-5	2-Nitrophenol	1.	U	1.	U	1.	U	1.	U	1.	U
105-67-9	2,4-Dimethylphenol	2.	U	2.	U	2.	U	2.	U	2.	U
111-91-1	[illegible] Chloroethoxy)methane	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U
120-82-1	[illegible]-Trichlorobenzene	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
[illegible]	Naphthalene	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
106-47-8	4-Chloroaniline	9.	U	9.	U	9.	U	9.	U	9.	U
87-68-3	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	Chloro 3-methylphenol	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U
77-47-4	[illegible]orocyc[illegible]ene	1.	U	1.	U	1.	U	1.	U	1.	U
88-06-2	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U
95-95-4	[illegible],5-Trichlorophenol	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U
88-74-4	[illegible]itroaniline	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	[illegible]aphthylene	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	3-Nitroaniline	4.	U	4.	U	4.	U	4.	U	4.	U
[illegible]	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U
51-28-5	[illegible],4-Dinitrophenol	15.	U	15.	U	15.	U	15.	U	15.	U
[illegible]	[illegible]	2.	U	2.	U	2.	U	2.	U	2.	U
132-64-9	[illegible]benzofuran	1.	U	1.	U	1.	U	1.	U	1.	U
[illegible]	[illegible]trotoluene	2.	U	2.	U	2.	U	2.	U	2.	U
[illegible]	[illegible]ethylphthalate	2.	U	2.	U	2.	U	2.	U	2.	U
[illegible]	[illegible]	1.	U	1.	U	1.	U	1.	U	1.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

SVOA

SAMPLE ID ------->	016-G-GS04-01		016-G-GS05-01		016-G-GS06-01		016-G-GS07-01		016-G-GS08-01		
ORIGINAL ID ----->	016GGS0401		016GGS0501		016GGS0601		016GGS0701		016GGS0801		
LAB SAMPLE ID --->	*5659-04*		5659-05		5657-01		5657-02		5657-03		
ID FROM REPORT -->	016GGS0401		016GGS0501		016GGS0601		016GGS0701		016GGS0801		
SAMPLE DATE ----->	05/09/96		05/09/96		05/08/96		05/08/96		05/08/96		
DATE EXTRACTED -->	05/15/96		05/15/96		05/15/96		05/15/96		05/15/96		
DATE ANALYZED --->	05/22/96		05/22/96		05/21/96		05/21/96		05/21/96		
MATRIX ---------->	Water		Water		Water		Water		Water		
UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	A	
CAS # Parameter	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	
86-73-7 Fluorene	2.	U	2.	U	2.	U	2.	U	2.	U	
100-01-6 4-Nitroaniline	2.	U	2.	U	2.	U	2.	U	2.	U	
534-52-1 2-Methyl-4,6-Dinitrophenol	2.	U	2.	U	2.	U	2.	U	2.	U	
86-30-6 N-Nitrosodiphenylamine	2.	U	2.	U	2.	U	2.	U	2.	U	
101-55-3 4-Bromophenyl-phenylether	2.	U	2.	U	2.	U	2.	U	2.	U	
118-74-1 Hexachlorobenzene	2.	U	2.	U	2.	U	2.	U	2.	U	
87-86-5 Pentachlorophenol	2.	U	2.	U	2.	U	2.	U	2.	U	
85-01-8 Phenanthrene	1.	U	1.	U	1.	U	1.	U	1.	U	
120-12-7 Anthracene	1.	U	1.	U	1.	U	1.	U	1.	U	
86-74-8 Carbazole	2.	U	2.	U	2.	U	2.	U	2.	U	
84-74-2 Di-n-butylphthalate	2.	U	2.	U	2.	U	2.	U	2.	U	
206-44-0 Fluoranthene	1.	U	1.	U	1.	U	1.	U	1.	U	
129-00-0 Pyrene	1.	U	1.	U	1.	U	1.	U	1.	U	
85-68-7 Butylbenzylphthalate	3.	U	3.	U	3.	U	3.	U	3.	U	
91-94-1 3,3'-Dichlorobenzidine	9.	U	9.	U	9.	U	9.	U	9.	U	
56-55-3 Benzo(a)anthracene	1.	U	1.	U	1.	U	1.	U	1.	U	
218-01-9 Chrysene	1.	U	1.	U	1.	U	1.	U	1.	U	
117-81-7 bis(2-Ethylhexyl)phthalate (BEHP)	2.	U	2.	U	2.	U	2.	U	2.	U	
117-84-0 Di-n-octyl phthalate	2.	U	2.	U	2.	U	2.	U	2.	U	
205-99-2 Benzo(b)fluoranthene	2.	U	2.	U	2.	U	2.	U	2.	U	
207-08-9 Benzo(k)fluoranthene	4.	U	4.	U	4.	U	4.	U	4.	U	
50-32-8 Benzo(a)pyrene	1.	U	1.	U	1.	U	1.	U	1.	U	
193-39-5 Indeno(1,2,3-cd)pyrene	1.	U	1.	U	1.	U	1.	U	1.	U	
53-70-3 Dibenz(a,h)anthracene	1.	U	1.	U	1.	U	1.	U	1.	U	
191-24-2 Benzo(g,h,i)perylene	1.	U	1.	U	1.	U	1.	U	1.	U	

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA															
	SAMPLE ID ------->	016-S-0001-01		016-S-0001-01 RE		016-W-0001-01		016-W-0001-01 MS		016-W-0001-01 MSD		016-R-0001-01	
	ORIGINAL ID ----->	016S000101		016S000101		016W000101		016W000101		016W000101		016R000101	
	LAB SAMPLE ID --->	5610-02		5610-02RE		5671-06		5671-06MS		5671-06MSD		5671-04	
	ID FROM REPORT -->	016S000101		016S000101		016W000101		016W000101		016W000101		016R000101	
	SAMPLE DATE ----->	04/10/96		04/10/96		05/14/96		05/14/96		05/14/96		05/14/96	
	DATE EXTRACTED -->	04/15/96		04/15/96									
	DATE ANALYZED --->	04/12/96		04/13/96		05/17/96		05/17/96		05/17/96		05/17/96	
	MATRIX ---------->	Soil		Soil		Water		Water		Water		Water	
	UNITS ---------->	UG/KG	A	UG/KG	C	UG/L	A	UG/L	E	UG/L	E	UG/L	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL
74-97-5	Chlorobromomethane	0.1	UJ	0.1	UR	0.1	U	0.1	U	0.1	U	0.1	U
74-87-3	Chloromethane	0.6	UJ	0.6	UR	0.2	U	0.2	U	0.2	U	0.2	U
74-83-9	Bromomethane	1.	UJ	1.	UR	0.2	U	0.2	U	0.2	U	0.2	U
75-01-4	Vinyl chloride	0.9	UJ	0.9	UR	0.2	U	5.		5.		0.2	U
75-00-3	Chloroethane	0.3	UJ	0.3	UR	0.2	U	0.2	U	0.2	U	0.2	U
75-09-2	Methylene chloride	0.9	UJ	0.9	UR	1.	U	1.	U	1'	U	1.	U
67-64-1	Acetone	1.	UJ	1.	UR	5.	UR	5.		3.		3.	UR
75-15-0	Carbon disulfide	0.7	UJ	0.7	UR	0.2	U	0.2	U	0.2	U	0.2	U
75-35-4	1,1-Dichloroethene	1.	UJ	1.	UR	0.2	U	0.2	U	0.2	U	0.2	U
75-34-3	1,1-Dichloroethane	0.4	UJ	0.4	UR	0.1	U	0.1	U	0.1	U	0.1	U
156-59-2	cis-1,2-Dichloroethene	0.3	UJ	0.3	UR	0.3	U	0.3	U	0.3	U	0.3	U
156-60-5	trans-1,2-Dichloroethene	0.3	UJ	0.3	UR	0.3	U	0.3	U	0.3	U	0.3	U
67-66-3	Chloroform	0.4	UJ	0.4	UR	0.1	U	0.1	U	0.1	U	0.1	U
107-06-2	1,2-Dichloroethane	0.5	UJ	0.5	UR	0.1	U	5.		5.		0.1	U
78-93-3	2-Butanone (MEK)	2.	UJ	2.	UR	0.2	UR	0.2	U	0.2	U	0.2	UR
71-55-6	1,1,1-Trichloroethane	0.4	UJ	0.4	UR	0.1	U	0.1	U	0.1	U	0.1	U
56-23-5	Carbon tetrachloride	0.5	UJ	0.5	UR	0.2	U	5.		5.		0.2	U
75-27-4	Bromodichloromethane	1.	UJ	1.	UR	0.1	U	0.1	U	0.1	U	0.1	U
78-87-5	1,2-Dichloropropene	0.2	UJ	0.2	UR	0.2	U	5.		5.		0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.3	UJ	0.3	UR	0.1	U	4.		5.		0.1	U
79-01-6	Trichloroethene	0.8	UJ	0.8	UR	0.1	U	5.		6.		0.1	U
124-48-1	Dibromochloromethane	0.5	UJ	0.5	UR	0.3	U	0.3	U	0.3	U	0.3	U
79-00-5	1,1,2-Trichloroethane	0.3	UJ	0.3	UR	0.3	U	5.		5.		0.3	U
71-43-2	Benzene	0.8	UJ	0.8	UR	0.1	U	5.		3.		0.1	U
10061-02-6	trans-1,3-Dichloropropene	0.6	UJ	0.6	UR	0.2	U	0.2	U	0.2	U	0.2	U
75-25-2	Bromoform	0.4	UJ	0.4	UR	0.2	U	5.		4.		0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.	UJ	1.	UR	0.2	U	0.2	U	0.2	U	0.2	U
591-78-6	2-Hexanone	2.	UJ	2.	UR	0.4	U	0.4	U	0.4	U	0.4	U
127-18-4	Tetrachloroethene	0.8	UJ	0.8	UR	0.2	U	5.		5.		0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.8	UJ	0.8	UR	0.2	U	0.2	U	042	U	0.2	U
106-93-4	1,2-Dibromoethane	1.	UJ	1.	UR	0.6	U	5.		5.		0.6	U
108-88-3	Toluene	0.3	UJ	0.6	UR	0.1	U	0.1	U	0.1	U	0.1	U
108-90-7	Chlorobenzene	0.2	UJ	0.2	UR	0.1	U	0.1	U	0.1	U	0.1	U
100-41-4	Ethylbenzene	0.3	UJ	0.3	UR	0.1	U	0.1	U	0.1	U	0.1	U
100-42-5	Styrene	0.2	UJ	0.2	UR	0.1	U	0.1	U	0.1	U	0.1	U
1330-20-7	Xylene (Total)	0.2	UJ	0.2	UR	0.1	U	0.1	U	0.1	U	0.1	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA																			
	SAMPLE ID ------->	016-S-0001-01		016-S-0001-01 RE		016-W-0001-01		016-W-0001-01 MS		016-W-0001-01 MSD		016-R-0001-01	
	ORIGINAL ID ----->	016S000101		016S000101		016W000101		016W000101		016W000101		016R000101	
	LAB SAMPLE ID --->	5610-02		5610-02RE		5671-06		5671-06MS		5671-06MSD		5671-04	
	ID FROM REPORT -->	016S000101		016S000101		016W000101		016W000101		016W000101		016R000101	
	SAMPLE DATE ----->	04/10/96		04/10/96		05/14/96		05/14/96		05/14/96		05/14/96	
	DATE EXTRACTED -->	04/15/96		04/15/96									
	DATE ANALYZED --->	04/12/96		04/13/96		05/17/96		05/17/96		05/17/96		05/17/96	
	MATRIX ---------->	Soil		Soil		Water		Water		Water		Water	
	UNITS ---------->	UG/KG	A	UG/KG	C	UG/L	A	UG/L	E	UG/L	E	UG/L	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL	SITEW16	VAL
541-73-1	1,3-Dichlorobenzene	0.5	UJ	0.5	UR	0.3	U	0.3	U	0.3	U	0.3	U
106-46-7	1,4-Dichlorobenzene	0.2	UJ	0.2	UR	0.4	U	4.		5.		0.4	U
95-50-1	1,2-Dichlorobenzene	0.4	UJ	0.4	UR	0.4	U	0.4	U	0.4	U	0.4	U
96-12-8	1,2-Dibromo-3-Chloropropane	1.	UJ	1.	UR	0.8	U	0.8	U	0.8	U	0.8	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA															
	SAMPLE ID ------->	016-S-0001-04		016-S-0002-01		016-S-0002-01 RE		016-S-0002-05		016-S-0003-01		016-S-0003-01 RE	
	ORIGINAL ID ----->	016S000104		016S000201		016S000201		016S000205		016S000301		016S000301	
	LAB SAMPLE ID --->	5610-03		5610-04		5610-04RE		5610-05		5613-02		5613-02RE	
	ID FROM REPORT -->	016S000104		016S000201		016S000201		016S000205		016S000301		016S000301	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/11/96		04/11/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/15/96		04/15/96		04/17/96		04/17/96	
	DATE ANALYZED --->	04/12/96		04/12/96		04/13/96		04/12/96		04/15/96		04/17/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A	UG/KG	C
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
74-97-5	Chlorobromomethane	0.1	UJ	0.1	UJ	0.1	UR	0.1	UJ	0.1	U	0.1	UR
74-87-3	Chloromethane	0.6	UJ	0.6	UJ	0.6	UR	0.5	UJ	0.6	U	0.6	UR
74-83-9	Bromomethane	1.	UJ	1.	UJ	1.	UR	1.	UJ	1.	U	1.	UR
75-01-4	Vinyl chloride	0.9	UJ	0.9	UJ	0.9	UR	0.9	UJ	0.9	U	0.9	UR
75-00-3	Chloroethane	0.3	UJ	0.3	UJ	0.3	UR	0.3	UJ	0.3	U	0.3	UR
75-09-2	Methylene chloride	0.9	UJ	0.9	UJ	0.9	UR	0.8	UJ	0.9	U	0.9	UR
67-64-1	Acetone	26.	UJ	84.	J	1.	UR	22.	UJ	27.	U	1.	UR
75-15-0	Carbon disulfide	0.7	UJ	0.7	UJ	0.7	UR	0.7	UJ	0.7	U	0.7	UR
75-35-4	1,1-Dichloroethene	1.	UJ	1.	UJ	1.	UR	1.	UJ	1.	U	1.	UR
75-34-3	1,1-Dichloroethane	0.4	UJ	0.4	UJ	0.4	UR	0.4	UJ	0.4	U	0.4	UR
156-59-2	cis-1,2-Dichloroethene	0.3	UJ	0.3	UJ	0.3	UR	0.3	UJ	0.3	U	0.3	UR
156-60-5	trans-1,2-Dichloroethene	0.3	UJ	0.3	UJ	0.3	UR	0.3	UJ	0.3	U	0.3	UR
67-66-3	Chloroform	0.3	UJ	0.3	UJ	0.3	UR	0.3	UJ	0.3	U	0.3	UR
107-06-2	1,2-Dichloroethane	0.5	UJ	0.5	UJ	0.5	UR	0.5	UJ	0.5	U	0.5	UR
78-93-3	2-Butanone (MEK)	2	UJ	2	UJ	2.	UR	2.	UJ	2	U	2.	UR
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	UJ	0.4	UR	0.4	U	0.4	UJ	0.4	UR
56-23-5	Carbon tetrachloride	0.5	U	0.5	UJ	0.5	UR	0.5	U	0.5	UJ	0.5	UR
75-27-4	Bromodichloromethane	1.	U	1.	UJ	1.	UR	1.	U	1.	UJ	1.	UR
78-87-5	1,2-Dichloropropene	0.2	U	0.2	UJ	0.2	UR	0.2	U	0.2	UJ	0.2	UR
10061-01-5	cis-1,3-Dichloropropene	0.3	U	0.3	UJ	0.3	UR	0.3	U	0.3	UJ	0.3	UR
79-01-6	Trichloroethene	0.8	U	0.8	UJ	0.8	UR	0.8	U	0.6	UJ	0.8	UR
124-48-1	Dibromochloromethane	0.5	U	0.5	UJ	0.5	UR	0.5	U	0.5	UJ	0.5	UR
79-00-5	1,1,2-Trichloroethane	0.3	U	0.3	UJ	0.3	UR	0.3	U	0.3	UJ	0.3	UR
71-43-2	Benzene	0.8	U	0.8	UJ	0.8	UR	0.7	U	0.8	UJ	0.8	UR
10061-02-6	trans-1,3-Dichloropropene	0.6	U	0.6	UJ	0.6	UR	0.6	U	0.6	UJ	0.6	UR
75-25-2	Bromoform	0.4	U	0.4	UJ	0.4	UR	0.4	U	0.4	UJ	0.4	UR
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.	U	1.	UJ	1.	UR	1.	U	1.	UJ	1.	UR
591-78-6	2-Hexanone	2.	U	2	UJ	2.	UR	2.	U	2	UJ	2.	UR
127-18-4	Tetrachloroethene	0.8	U	0.8	UJ	0.8	UR	0.8	U	0.8	UJ	0.8	UR
79-34-5	1,1,2,2-Tetrachloroethane	0.8	U	0.8	UJ	0.8	UR	0.8	U	0.8	UJ	0.8	UR
106-93-4	1,2-Dibromoethane	1	U	1.	UJ	1.	UR	0.9	U	1	UJ	1.	UR
108-88-3	Toluene	0.3	U	0.3	UJ	0.3	UR	0.3	U	0.3	UJ	0.3	UR
108-90-7	Chlorobenzene	0.2	U	0.2	UJ	0.2	UR	0.2	U	0.2	UJ	0.2	UR
100-41-4	Ethylbenzene	0.3	U	0.3	UJ	0.3	UR	0.3	U	0.3	UJ	0.3	UR
100-42-5	Styrene	0.2	U	0.2	UJ	0.2	UR	0.2	U	0.2	UJ	0.2	UR
1330-20-7	Xylene (Total)	6.2	U	0.2	UJ	0.2	UR	0.2	U	0.2	UJ	0.2	UR

+ Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA						
SAMPLE ID ------->	016-S-0001-04	016-S-0002-01	016-S-0002-01 RE	016-S-0002-05	016-S-0003-01	016-S-0003-01 RE
ORIGINAL ID ----->	016S000104	016S000201	016S000201	016S000205	016S000301	016S000301
LAB SAMPLE ID --->	5610-03	5610-04	5610-04RE	5610-05	5613-02	5613-02RE
ID FROM REPORT -->	016S000104	016S000201	016S000201	016S000205	016S000301	016S000301
SAMPLE DATE ----->	04/10/96	04/10/96	04/10/96	04/10/96	04/11/96	04/11/96
DATE EXTRACTED -->	04/15/96	04/15/96	04/15/96	04/15/96	04/17/96	04/17/96
DATE ANALYZED --->	04/12/96	04/12/96	04/13/96	04/12/96	04/15/96	04/17/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG A	UG/KG C	UG/KG A	UG/KG A	UG/KG C

CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
541-73-1	1,3-Dichlorobenzene	0.4	U	0.4	UJ	0.4	UR	0.4	U	0.4	UJ	0.4	UR
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	UJ	0.2	UR	0.2	U	0.2	UJ	0.2	UR
95-50-1	1,2-Dichlorobenzene	0.4	U	0.4	UJ	0.4	UR	0.4	U	0.4	UJ	0.4	UR
96-12-8	1,2-Dibromo-3-Chloropropane	1.	U	1.	UJ	1.	UR	0.9	U	1.	UJ	1.	UR

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA															
	SAMPLE ID ------->	016-S-0003-03		016-S-0003-03 DL		016-S-0003-03 RE		016-S-0004-01		016-S-0004-01 RE		016-S-0004-05	
	ORIGINAL ID ----->	016S000303		016S000303		016S000303		016S000401		016S000401		016S000405	
	LAB SAMPLE ID --->	5613-03		5613-03DL		5613-03RE		5610-06		5610-06RE		5610-07	
	ID FROM REPORT -->	016S000303		016S000303		016S000303		016S000401		016S000401		016S000405	
	SAMPLE DATE ----->	04/11/96		04/11/96		04/11/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/17/96		04/17/96		04/17/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/15/96		04/16/96		04/16/96		04/12/96		04/13/96		04/12/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	C	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
74-97-5	Chlorobromomethane	0.1	UJ	0.6	UR	0.1	UR	0.1	UJ	0.1	UR	0.1	U
74-87-3	Chloromethane	0.7	UJ	3.	UR	0.7	UR	0.6	UJ	0.6	UR	0.6	U
74-83-9	Bromomethane	2.	UJ	8.	UR	2.	UR	1.	UJ	1.	UR	1.	U
75-01-4	Vinyl chloride	1.	UJ	5. u	R	1.	UR	0.9	UJ	0.9	UR	0.9	U
75-00-3	Chloroethane	0.4	UJ	2.	UR	0.4	UR	0.3	UJ	0.3	UR	0.3	U
75-09-2	Methylene chloride	1.	UJ	5.	UR	1.	UR	0.9	UJ	0.9	UR	0.9	U
67-64-1	Acetone	330.	J	330.	UR	270.	UR	13.	UJ	1.	UR	10.	U
75-15-0	Carbon disulfide	0.9	UJ	4.	UR	0.9	UR	0.7	UJ	0.7	UR	0.8	U
75-35-4	1,1-Dichloroethene	2.	J	7.	UR	1.	UR	1.	UJ	1.	UR	1.	U
75-34-3	1,1-Dichloroethane	0.5	UJ	2.	UR	0.5	UR	0.4	UJ	0.4	UR	0.4	U
156-59-2	cis-1,2-Dichloroethene	2.	J	2.	UR	0.4	UR	0.3	UJ	0.3	UR	0.4	U
156-60-5	trans-1,2-Dichloroethene	0.3	UJ	2.	UR	0.3	UR	0.3	UJ	0.3	UR	0.3	U
67-66-3	Chloroform	0.4	UJ	2.	UR	0.4	UR	0.3	UJ	0.3	UR	0.4	U
107-06-2	1,2-Dichloroethane	0.6	UJ	3.	UR	0.6	UR	0.5	UJ	0.5	UR	0.5	U
78-93-3	2-Butanone (MEK)	6.	J	10.	UR	3.	UR	2.	UJ	2.	UR	2.	U
71-55-6	1,1,1-Trichloroethane	0.4	UJ	2.	UR	0.4	UR	0.4	U	0.4	UR	0.4	U
56-23-5	Carbon tetrachloride	0.6	UJ	3.	UR	0.6	UR	0.5	U	0.5	UR	0.5	U
75-27-4	Bromodichloromethane	1.	UJ	6.	UR	1.	UR	1.	U	1.	UR	1.	U
78-87-5	1,2-Dichloropropane	0.2	UJ	1.	UR	0.2	UR	0.2	U	0.2	UR	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.4	UJ	2.	UR	0.4	UR	0.3	U	0.3	UR	0.4	U
79-01-6	Trichloroethene	0.9	UJ	5.	UR	0.9	UR	0.8	U	0.8	UR	0.8	U
124-48-1	Dibromochloromethane	0.6	UJ	3.	UR	0.6	UR	0.5	U	0.5	UR	0.5	U
79-00-5	1,1,2-Trichloroethane	0.4	UJ	2.	UR	0.4	UR	0.3	U	0.3	UR	0.3	U
71-43-2	Benzene	0.9	UJ	4.	UR	0.9	UR	0.8	U	0.8	UR	0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.8	UJ	4.	UR	0.8	UR	0.6	U	0.6	UR	0.7	U
75-25-2	Bromoform	0.5	UJ	3.	UR	0.5	UR	0.4	U	0.4	UR	0.5	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2.	UJ	8.	UR	2.	UR	1.	U	1.	UR	1.	U
591-78-6	2-Hexanone	3.	UJ	13.	UR	3.	UR	2.	U	2.	UR	2.	U
127-18-4	Tetrachloroethene	1.	UJ	5.	UR	1.	UR	0.8	U	0.6	UR	0.9	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	UJ	5.	UR	0.9	UR	0.8	U	0.8	UR	0.8	U
106-93-4	1,2-Dibromoethane	1.	UJ	6.	UR	1.	UR	1.	U	1.	UR	1.	U
108-88-3	Toluene	0.8	J	2.	UR	0.4	UR	0.3	U	0.3	UR	0.3	U
108-90-7	Chlorobenzene	0.3	UJ	1.	UR	0.3	UR	0.2	U	0.2	UR	0.2	U
100-41-4	Ethylbenzene	0.4	UJ	2.	UR	0.4	UR	0.3	U	0.3	UR	0.3	U
100-42-5	Styrene	0.2	UJ	1.	UR	0.2	UR	0.2	U	0.2	UR	0.2	U
1330-20-7	Xylene (Total)	0.2	UJ	1.	UR	0.2	UR	0.2	U	0.2	UR	0.2	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA																	
	SAMPLE ID ------->	016-S-0003-03		016-S-0003-03 DL		016-S-0003-03 RE		016-S-0004-01		016-S-0004-01 RE		016-S-0004-05	
	ORIGINAL ID ----->	016S000303		016S000303		016S000303		016S000401		016S000401		016S000405	
	LAB SAMPLE ID --->	5613-03		5613-03DL		5613-03RE		5610-06		5610-06RE		5610-07	
	ID FROM REPORT -->	016S000303		016S000303		016S000303		016S000401		016S000401		016S000405	
	SAMPLE DATE ----->	04/11/96		04/11/96		04/11/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/17/96		04/17/96		04/17/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/15/96		04/16/96		04/16/96		04/12/96		04/13/96		04/12/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	C	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
541-73-1	1,3-Dichlorobenzene	0.5	UJ	3.	UR	0.5	UR	0.4	U	0.4	UR	0.5	U
106-46-7	1,4-Dichlorobenzene	0.2	UJ	1.	UR	0.2	UR	0.2	U	0.2	UR	02	U
95-50-1	1,2-Dichlorobenzene	0.5	UJ	3.	UR	0.5	UR	0.4	U	0.4	UR	0.5	U
96-12-8	1,2-Dibromo-3-Chloropropane	1.	UJ	6.	UR	1.	UR	1.	U	1.	UR	1	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA															
	SAMPLE ID ------->	016-S-0005-01		016-C-0005-01		016-C-0005-01 RE		016-S-0005-05		016-S-0006-01		016-S-0006-01 RE	
	ORIGINAL ID ----->	016S000501		016C000501		016C000501		016S000505		016S000601		016S000601	
	LAB SAMPLE ID --->	5610-08		5610-01		5610-01RE		5610-09		5610-10		5610-10RE	
	ID FROM REPORT -->	016S000501		016C000501		016C000501		016S000505		016S000601		016S000601	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96				04/15/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/12/96		04/12/96		04/13/96		04/12/96		04/12/96		04/13/96	
	MATRIX ---------->	soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A	UG/KG	C
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
74-97-5	Chlorobromomethane	0.1	UJ	0.1	UJ	0.1	UR	0.1	UJ	0.1	UJ	0.1	UR
74-87-3	Chloromethane	0.6	UJ	0.6	UJ	0.6	UR	0.6	UJ	0.5	UJ	0.5	UR
74-83-9	Bromomethane	1.	UJ	1.	UJ	1.	UR	1.	UJ	1.	UJ	1.	UR
75-01-4	Vinyl chloride	1.	UJ	0.9	UJ	0.9	UR	0.9	UJ	0.8	UJ	0.8	UR
75-00-3	Chloroethane	0.3	UJ	0.3	UJ	0.3	UR	0.3	UJ	0.3	UJ	0.3	UR
75-09-2	Methylene chloride	1.	UJ	0.9	UJ	0.9	UR	0.9	UJ	0.8	UJ	0.8	UR
67-64-1	Acetone	1.	UJ	1.	UJ	1.	UR	170.	J	6.	UJ	6.	UR
75-15-0	Carbon disulfide	0.6	UJ	0.a	UJ	0.8	UR	0.7	UJ	0.7	UJ	0.7	UR
75-35-4	1,1-Dichloroethene	1.	UJ	1.	UJ	1.	UR	1.	UJ	1.	UJ	1.	UR
75-34-3	1,1-Dichloroethane	0.4	UJ	0.4	UJ	0.4	UR	0.4	UJ	0.4	UJ	0.4	UR
156-59-2	cis-1,2-Dichloroethene	0.4	UJ	0.4	UJ	0.4	UR	0.3	UJ	0.3	UJ	0.3	UR
156-60-5	trans-1,2-Dichloroethene	0.3	UJ	0.3	UJ	0.3	UR	0.3	UJ	0.3	UJ	0.3	UR
67-66-3	Chloroform	0.4	UJ	0.4	UJ	0.4	UR	0.3	UJ	0.3	UJ	0.3	UR
107-06-2	1,2-Dichloroethane	0.5	UJ	0.5	UJ	0.5	UR	0.5	UJ	0.5	UJ	0.5	UR
78-93-3	2-Butanone (MEK)	2.	UJ	2.	UJ	2.	UR	2.	UJ	2.	UJ	2.	UR
71-55-6	1,1,1-Trichloroethane	0.4	UJ	0.4	UJ	0.4	UR	0.4	U	0.4	U	0.4	UR
56-23-5	Carbon tetrachloride	0.6	UJ	0.5	UJ	0.5	UR	0.5	U	0.5	U	0.5	UR
75-27-4	Bromodichloromethane	1.	UJ	1.	UJ	1.	UR	1.	U	1.	U	1.	UR
78-87-5	1,2-Dichloropropene	0.2	UJ	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UR
10061-01-5	cis-1,3-Dichloropropene	0.4	UJ	0.4	UJ	0.4	UR	0.3	U	0.3	U	0.3	UR
79-01-6	Trichloroethene	0.9	UJ	0.6	UJ	0.8	UR	0.8	U	0.8	U	0.8	UR
124-48-1	Dibromochloromethane	0.5	UJ	0.5	UJ	0.5	UR	0.5	U	0.5	U	0.5	UR
79-00-5	1,1,2-Trichloroethane	0.3	UJ	0.3	UJ	0.3	UR	0.3	U	0.3	U	0.3	UR
71-43-2	Benzene	0.8	UJ	0.8	UJ	0.8	UR	0.8	U	0.7	U	0.7	UR
10061-02-6	trans-1,3-Dichloropropene	0.7	UJ	0.7	UJ	0.7	UR	0.6	U	0.6	U	0.6	UR
75-25-2	Bromoform	0.5	UJ	0.5	UJ	0.5	UR	0.4	U	0.4	U	0.4	UR
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.	UJ	1.	UJ	1.	UR	1.	U	1.	U	1.	UR
591-78-6	2-Hexanone	2.	UJ	2.	UJ	2.	UR	2.	U	2.	U	2.	UR
127-18-4	Tetrachloroethene	0.9	UJ	0.9	UJ	0.9	UR	0.8	U	0.8	U	0.8	UR
79-34-5	1,1,2,2-Tetrachloroethane	0.9	UJ	0.8	UJ	0.8	UR	0.8	U	0.6	U	0.8	UR
106-93-4	1,2-Dibromoethane	1.	UJ	1.	UJ	1.	UR	1.	U	0.9	U	0.9	UR
108-88-3	Toluene	0.4	UJ	0.4	UJ	0.4	UR	0.3	U	0.3	U	0.3	UR
108-90-7	Chlorobenzene	0.2	UJ	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UR
100-41-4	Ethylbenzene	0.3	UJ	0.3	UJ	0.3	UR	0.3	U	0.3	U	0.3	UR
100-42-5	Styrene	0.2	UJ	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UR
1330-20-7	Xylene (Total)	0.2	UJ	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UR

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA															
	SAMPLE ID ------->	016-S-0005-01		016-C-0005-01		016-C-0005-01 RE		016-S-0005-05		016-S-0006-01		016-E-0006-01 RE	
	ORIGINAL ID ----->	016S000501		016C000501		016C000501		016S000505		016S000601		016S000601	
	LAB SAMPLE ID --->	5610-08		5610-01		5610-01RE		5610-09		5610-10		5610-10RE	
	ID FROM REPORT -->	016S000501		016C000501		016C000501		016S000505		016S000601		016S000601	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96				04/15/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/12/96		04/12/96		04/13/96		04/12/96		04/12/96		04/13/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A	UG/KG	C
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
541-73-1	1,3-Dichlorobenzene	0.5	UJ	0.5	UJ	0.5	UR	0.5	U	0.4	U	0.4	UR
106-46-7	1,4-Dichlorobenzene	0.2	UJ	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UR
95-50-1	1,2-Dichlorobenzene	0.5	UJ	0.5	UJ	0.5	UR	0.4	U	0.4	U	0.4	UR
96-12-8	1,2-Dibromo-3-Chloropropane	1.	UJ	1.	UJ	1.	UR	1.	U	0.9	U	0.9	UR

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA

SAMPLE ID ------->	016-S-0006-07		016-S-0007-01		016-6-0007-01		016-S-0007-06		016-S-0007-06 RE		016-S-0008-01	
ORIGINAL ID ----->	016S000607		016S000701		0166000701		016S000706		016S000706		016S000801	
LAB SAMPLE ID --->	5610-11		5610-12		5602-12		5610-13		5610-13RE		5610-14	
ID FROM REPORT -->	016S000607		016S000701		0166000701		016S000706		016S000706		016S000801	
SAMPLE DATE ----->	04/10/96		04/10/96		04/01/96		04/10/96		04/10/96		04/10/96	
DATE EXTRACTED -->	04/15/96		04/15/96				04/15/96		04/15/96		04/15/96	
DATE ANALYZED --->	04/12/96		04/12/96		04/06/96		04/12/96		04/13/96		04/12/96	
MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
UNITS ---------->	UG/KG	I	UG/KG	A	UG/KG	B	UG/KG	A	UG/KG	C	UG/KG	A

CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
74-97-5	Chlorobromomethane	0.1	U	0.1	UJ	??????????		0.1	UJ	0.1	UR	0.1	UJ
74-87-3	Chloromethane	0.6	U	0.6	UJ	0.5	U	0.6	UJ	0.6	UR	0.5	UJ
74-83-9	Bromomethane	1.	U	1.	UJ	1.	U	1.	UJ	1.	UR	1.	UJ
75-01-4	Vinyl chloride	0.9	U	0.9	UJ	0.8	U	0.9	UJ	0.9	UR	0.8	UJ
75-00-3	Chloroethane	0.3	U	0.3	UJ	0.3	U	0.3	UJ	0.3	UR	0.3	UJ
75-09-2	Methylene chloride	0.9	U	0.9	UJ	0.8	U	0.8	UJ	0.8	UR	0.8	UJ
67-64-1	Acetone	18.	U	22.	UJ	6.		36.	UJ	1.	UR	25.	UJ
75-15-0	Carbon disulfide	0.7	U	0.7	UJ	0.7	U	0.7	UJ	0.7	UR	0.7	UJ
75-35-4	1,1-Dichloroethene	1.	U	1.	UJ	1.	U	1.	UJ	1.	UR	1.	UJ
75-34-3	1,1-Dichloroethane	0.4	U	0.4	UJ	0.4	U	0.4	UJ	0.4	UR	0.4	UJ
156-59-2	cis-1,2-Dichloroethene	0.3	U	0.3	UJ	0.3	U	0.3	UJ	0.3	UR	0.3	UJ
156-60-5	trans-1,2-Dichloroethene	0.3	U	0.3	UJ	0.3	U	0.3	UJ	0.3	UR	0.3	UJ
67-66-3	Chloroform	0.3	U	0.3	UJ	0.3	U	0.3	UJ	0.3	UR	0.3	UJ
107-06-2	1,2-Dichloroethane	0.5	U	0.5	UJ	0.5	U	0.5	UJ	0.5	UR	0.5	UJ
78-93-3	2-Butanone (MEK)	2.	U	2.	UJ	2.	U	2.	UJ	2.	UR	2.	UJ
71-55-6	1,1,1-Trichloroethane	0.4	U	0.4	U	0.4	U	0.4	U	0.4	UR	0.4	U
56-23-5	Carbon tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UR	0.5	U
75-27-4	Bromodichloromethane	1.	U	1.	U	1.	U	1.	U	1.	UR	1.	U
78-87-5	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	UR	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	UR	0.3	U
79-01-6	Trichloroethene	0.8	U	0.8	U	0.7	U	0.8	U	0.8	UR	0.8	U
124-48-1	Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	UR	0.5	U
79-00-5	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	UR	0.3	U
71-43-2	Benzene	0.8	U	0.8	U	0.7	U	0.7	U	0.7	UR	0.7	U
10061-02-6	trans-1,3-Dichloropropene	0.6	U	0.6	U	0.6	U	0.6	U	0.6	UR	0.6	U
75-25-2	Bromoform	0.4	U	0.4	U	0.4	U	0.4	U	0.4	UR	0.4	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.	U	1.	U	1.	U	1.	U	1.	UR	1.	U
591-78-6	2-Hexanone	2.	U	2.	U	2.	U	2.	U	2.	UR	2.	U
127-18-4	Tetrachloroethene	0.8	U	0.0	U	0.8	U	0.0	U	0.8	UR	0.8	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0	U	0.8	U	0.8	U	0.8	U	0.8	UR	0.8	U
106-93-4	1,2-Dibromoethane	1.	U	1.	U	0.9	U	0.9	U	0.9	UR	0.9	U
108-88-3	Toluene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	UR	0.3	U
108-90-7	Chlorobenzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	UR	0.2	U
100-41-4	Ethylbenzene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	UR	0.3	U
100-42-5	Styrene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	UR	0.2	U
1330-20-7	Xylene (Total)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	UR	0.2	U

*** Validation Complete ***

VOA													
	SAMPLE ID ------->	016-S-0006-0f		016-S-0007-01		016-6-0007-01		016-S-0007-06		016-S-0007-06 RE		016-S-0008-01	
	ORIGINAL ID ----->	016S000607		016S000701		0166000701		016S000706		016S000706		016S000801	
	LAB SAMPLE ID --->	5610-11		5610-12		5602-12		5610-13		5610-13RE		5610-14	
	ID FROM REPORT -->	016S000607		016S000701		0166000701		016S000706		016S000706		016S000801	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/01/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		04/15/96				04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/12/96		04/12/96		04/06/96		04/12/96		04/13/96		04/12/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	B	UG/KG	A	UG/KG	C	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
541-73-1	1,3-Dichlorobenzene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	UR	0.4	U
106-46-7	1,4-Dichlorobenzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	UR	2.	
95-50-1	1,2-Dichlorobenzene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	UR	0.4	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U	1.	U	0.9	U	0.9	U	0.9	UR	0.9	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA																	
	SAMPLE ID ------->	016-S-0008-01 RE		016-S-0008-07		016-S-0008-07 RE		016-S-0008-12		016-S-0009-01		016-S-0009-07	
	ORIGINAL ID ----->	016S000801		016S000807		016S000807		016S000812		016S000901		016S000907	
	LAB SAMPLE ID --->	5610-14RE		5610-15		5610-15RE		5610-16		5610-17		5610-18RE	
	ID FROM REPORT -->	016S000801		016S000807		016S000807		016S000812		016S000901		016S000907	
	SAMPLE DATE ----->	04/10/96		04/10/96		04/10/96		04/10/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/15/96		04/15/96		04/15/96		04/15/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/13/96		04/12/96		04/13/96		04/12/96		04/13/96		04/14/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
74-97-5	Chlorobromomethane	0.1	UR	0.1	U	0.1	UR	0.1	UJ	0.1	UJ	0.1	UJ
74-87-3	Chloromethane	0.5	UR	0.6	U	0.6	UR	0.6	UJ	0.6	UJ	0.6	UJ
74-83-9	Bromomethane	1.	UR	1.	U	1.	UR	1.	UJ	1.	UJ	1.	UJ
75-01-4	Vinyl chloride	0.8	UR	0.9	U	0.9	UR	0.9	UJ	0.9	UJ	0.9	UJ
75-00-3	Chloroethane	0.3	UR	0.3	U	0.3	UR	0.3	UJ	0.3	UJ	0.3	UJ
75-09-2	Methylene chloride	0.8	UR	0.9	U	0.9	UR	0.9	UJ	0.8	UJ	0.9	UJ
67-64-1	Acetone	1.	UR	25.	U	28.	UR	7.	UJ	38.	UJ	89.	J
75-15-0	Carbon disulfide	0.7	UR	0.7	U	0.7	UR	0.7	UJ	0.7	UJ	0.8	UJ
75-35-4	1,1-Dichloroethene	1.	UR	1.	U	1.	UR	1.	UJ	1.	UJ	1.	UJ
75-34-3	1,1-Dichloroethane	0.4	UR	0.4	U	0.4	UR	0.4	UJ	0.4	UJ	0.4	UJ
156-59-2	cis-1,2-Dichloroethene	0.3	UR	0.3	U	0.3	UR	0.3	UJ	0.3	UJ	0.4	UJ
156-60-5	trans-1,2-Dichloroethene	0.3	UR	6.3	U	0.3	UR	0.3	UJ	0.3	UJ	0.3	UJ
67-66-3	Chloroform	0.3	UR	0.3	U	0.3	UR	0.3	UJ	0.3	UJ	0.4	UJ
107-06-2	1,2-Dichloroethane	0.5	UR	0.5	U	0.5	UR	0.5	UJ	0.5	UJ	0.5	UJ
78-93-3	2-Butanone (MEK)	2.	UR	2.	U	2.	UR	2.	UJ	2.	UJ	2.	UJ
71-55-6	1,1,1-Trichloroethane	0.4	UR	0.4	UJ	0.4	UR	0.4	U	0.4	U	0.4	UJ
56-23-5	Carbon tetrachloride	0.5	UR	0.5	UJ	0.5	UR	0.5	U	0.5	U	0.5	UJ
75-27-4	Bromodichloromethane	1.	UR	1.	UJ	1.	UR	1.	U	1.	U	1.	UJ
78-87-5	1,2-Dichloropropene	0.2	UR	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UJ
10061-01-5	cis-1,3-Dichloropropene	0.3	UR	0.3	UJ	0.3	UR	0.3	U	0.3	U	0.4	UJ
79-01-6	Trichloroethene	0.8	UR	0.8	UJ	0.8	UR	0.8	U	0.8	U	0.8	UJ
124-48-1	Dibromochloromethane	0.5	UR	0.5	UJ	0.5	UR	0.5	U	0.5	U	0.5	UJ
79-00-5	1,1,2-Trichloroethane	0.3	UR	0.3	UJ	0.3	UR	0.3	U	0.3	U	0.3	UJ
71-43-2	Benzene	0.7	UR	0.8	UJ	0.8	UR	0.8	U	0.7	U	0.8	UJ
10061-02-6	trans-1,3-Dichloropropene	0.6	UR	0.6	UJ	0.6	UR	0.6	U	0.6	U	0.7	UJ
75-25-2	Bromoform	0.4	UR	0.4	UJ	0.4	UR	0.4	U	0.4	U	0.4	UJ
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.	UR	1.	UJ	1.	UR	1.	U	1.	U	1.	UJ
591-78-6	2-Hexanone	2.	UR	2.	UJ	2.	UR	2.	U	2.	U	2.	UJ
127-18-4	Tetrachloroethene	0.8	UR	0.8	UJ	0.8	UR	0.8	U	0.8	U	0.9	UJ
79-34-5	1,1,2,2-Tetrachloroethane	0.8	UR	0.8	UJ	0.8	UR	0.8	U	0.8	U	0.8	UJ
106-93-4	1,2-Dibromoethane	0.9	UR	1	UJ	1.	UR	0.9	U	0.9	U	1.	UJ
108-88-3	Toluene	0.3	UR	0.3	UJ	0.3	UR	0.3	U	0.3	U	0.3	UJ
108-90-7	Chlorobenzene	0.2	UR	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UJ
100-41-4	Ethylbenzene	0.3	UR	0.3	UJ	0.3	UR	0.3	U	0.3	U	0.3	UJ
100-42-5	Styrene	0.2	UR	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UJ
1330-20-7	Xylene (Total)	0.2	UR	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UJ

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA							
SAMPLE ID ------->	016-S-0008-01 RE	016-S-0008-07	016-S-0008-07 RE	016-S-0008-12	016-S-0009-01	016-S-0009-07
ORIGINAL ID ----->	016S000801	016S000807	016S000807	016S000812	016S000901	016S000907
LAB ID --->	5610-14RE	5610-15	5610-15RE	5610-16	5610-17	5610-18RE
ID FROM REPORT -->	016S000801	016S000807	016S000807	016S000812	016S000901	016S000907
SAMPLE DATE ----->	04/10/96	04/10/96	04/10/96	04/10/96	04/10/96	04/10/96
DATE EXTRACTED -->	04/15/96	04/15/96	04/15/96	04/15/96	04/15/96	04/15/96
DATE ANALYZED --->	04/13/96	04/12/96	04/13/96	04/12/96	04/13/96	04/14/96
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG C	UG/KG A	UG/KG C	UG/KG A	UG/KG A	UG/KG A

CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
541-73-1	1,3-Dichlorobenzene	*0.4*	UR	0.5	UJ	0.5	UR	0.4	U	*0.4*	U	0.5	UJ
106-46-7	1,4-Dichlorobenzene	0.2	UR	0.2	UJ	0.2	UR	0.2	U	0.2	U	0.2	UJ
95-50-1	1,2-Dichlorobenzene	0.4	UR	*0.4*	UJ	0.4	UR	*0.4*	U	*0.4*	U	*0.4*	UJ
96-12-8	1,2-Dibromo-3-Chloropropane	0.9	UR	1.	UJ	1.	UR	0.9	U	0.9	U	1.	UJ

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA															
	SAMPLE ID ------->	016-S-0009-07 RE		016-S-0010-01		016-S-0010-01 RE		016-C-0010-01		016-C-0010-01 RE		D16-S-0010-04	
	ORIGINAL ID ----->	016S000907		016S001001		016S001001		016C001001		016C001001		D16S001004	
	LAB SAMPLE ID --->	5610-18RE2		5613-04		5613-04RE		5613-01		5613-01RE		5613-05	
	ID FROM REPORT -->	016S000907		016S001001		016S001001		016C001001		016C001001		D16S001004	
	SAMPLE DATE ----->	04/10/96		04/11/96		04/11/96		04/11/96		04/11/96		04/11/96	
	DATE EXTRACTED -->	04/15/96		04/17/96		04/17/96		04/16/96		04/17/96		04/17/96	
	DATE ANALYZED --->	04/15/96		04/15/96		04/17/96		04/15/96		04/16/96		04/15/96	
	MATRIX ---------->	soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
74-97-5	Chlorobromomethane	0.1	UR	0.1	U	0.1	UR	0.1	U	0.1	UR	0.1	UJ
74-87-3	Chloromethane	0.6	UR	0.6	U	0.6	UR	0.6	U	0.6	UR	0.6	UJ
74-83-9	Bromomethane	1.	UR	1.	U	1.	UR	1.	U	1.	UR	1.	UJ
75-01-4	Vinyl chloride	0.9	UR	0.9	U	0.9	UR	0.9	U	0.9	UR	0.9	UJ
75-00-3	Chloroethane	0.3	UR	0.3	U	0.3	UR	0.3	U	0.3	UR	0.3	UJ
75-09-2	Methylene chloride	0.9	UR	0.9	U	0.9	UR	0.9	U	0.9	UR	0.9	UJ
67-64-1	Acetone	32.	UR	1.	U	3.	UR	10.	U	4.	UR	450.	J
75-15-0	Carbon disulfide	0.8	UR	0.7	U	0.7	UR	0.7	U	0.7	UR	0.7	UJ
75-35-4	1,1-Dichloroethene	1.	UR	1.	U	1.	UR	1.	U	1.	UR	1.	UJ
75-34-3	1,1-Dichloroethane	0.4	UR	0.4	U	0.4	UR	0.4	U	0.4	UR	0.4	UJ
156-59-2	cis-1,2-Dichloroethene	0.4	UR	0.3	U	0.3	UR	0.3	U	0.3	UR	0.3	UJ
156-60-5	trans-1,2-Dichloroethene	0.3	UR	0.3	U	0.3	UR	0.3	U	0.3	UR	0.3	UJ
67-66-3	Chloroform	0.4	UR	0.3	U	0.3	UR	0.3	U	0.3	UR	0.3	UJ
107-06-2	1,2-Dichloroethane	0.5	UR	0.5	U	0.5	UR	0.5	U	0.5	UR	0.5	UJ
78-93-3	2-Butanone (MEK)	2.	UR	2.	U	2.	UR	2.	U	2.	UR	2.	UJ
71-55-6	1,1,1-Trichloroethane	0.4	UR	0.4	UJ	0.4	UR	0.4	UJ	0.4	UR	0.4	U
56-23-5	Carbon tetrachloride	0.5	UR	0.5	UJ	0.5	UR	0.5	UJ	0.5	UR	0.5	U
75-27-4	Bromodichloromethane	1.	UR	1.	UJ	1.	UR	1.	UJ	1.	UR	1.	U
78-87-5	1,2-Dichloropropane	0.2	UR	0.2	UJ	0.2	UR	0.2	UJ	0.2	UR	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.4	UR	0.3	UJ	0.3	UR	0.3	UJ	0.3	UR	0.3	U
79-01-6	Trichloroethene	0.8	UR	0.8	UJ	0.8	UR	0.8	UJ	0.8	UR	0.8	U
124-48-1	Dibromochloromethane	0.5	UR	0.5	UJ	0.5	UR	0.5	UJ	0.5	UR	0.5	U
79-00-5	1,1,2-Trichloroethane	0.3	UR	0.3	UJ	0.3	UR	0.3	UJ	0.3	UR	0.3	U
71-43-2	Benzene	0.8	UR	0.8	UJ	0.8	UR	0.8	UJ	0.6	UR	0.8	U
10061-02-6	trans-1,3-Dichloropropene	0.7	UR	0.6	UJ	0.6	UR	0.6	UJ	0.6	UR	0.6	U
75-25-2	Bromoform	0.4	UR	0.4	UJ	0.4	UR	0.4	UJ	0.4	UR	0.4	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.	UR	1.	UJ	1.	UR	1.	UJ	1.	UR	1.	U
591-78-6	2-Hexanone	2.	UR	2.	UJ	2.	UR	2.	UJ	2.	UR	2.	U
127-18-4	Tetrachloroethene	0.9	UR	0.8	UJ	0.8	UR	0.8	UJ	0.8	UR	0.8	U
79-34-5	1,1,2,2-Tetrachloroethane	0.6	UR	0.8	UJ	0.8	UR	0.8	UJ	0.8	UR	0.8	U
106-93-4	1,2-Dibromoethane	1.	UR	1.	UJ	1.	UR	1.	UJ	1.	UR	1.	U
108-88-3	Toluene	0.4	UR	0.3	UJ	0.3	UR	0.3	UJ	0.3	UR	0.3	U
108-90-7	Chlorobenzene	0.2	UR	0.2	UJ	0.2	UR	0.2	UJ	0.2	UR	0.2	U
100-41-4	Ethylbenzene	0.3	UR	0.3	UJ	0.3	UR	0.3	UJ	0.3	UR	0.3	U
100-42-5	Styrene	0.2	UR	0.2	UJ	0.2	UR	0.2	UJ	0.2	UR	0.2	U
1330-20-7	Xylene (Total)	0.2	UR	0.2	UJ	0.2	UR	0.2	UJ	0.2	UR	0.2	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA															
	SAMPLE ID ------->	016-S-0009-07 RE		016-S-6010-01		016-S-0010-01 RE		016-C-0010-01		016-C-0010-01 RE		016-S-0010-04	
	ORIGINAL ID ----->	016S000907		016S001001		016S001001		016C001001		016C001001		016S001004	
	LAB SAMPLE ID --->	5610-18RE2		5613-04		5613-04RE		5613-01		5613-01RE		5613-05	
	ID FROM REPORT -->	016S000907		016S001001		016S001001		016C001001		016C001001		016S001004	
	SAMPLE DATE ----->	04/10/96		04/11/96		04/11/96		04/11/96		04/11/96		04/11/96	
	DATE EXTRACTED -->	04/15/96		04/17/96		04/17/96		04/16/96		04/17/96		04/17/96	
	DATE ANALYZED --->	04/15/96		04/15/96		04/17/96		04/15/96		04/16/96		04/15/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
541-73-1	1,3-Dichlorobenzene	*0.5*	UR	0.5	UJ	0.5	UR	0.5	UJ	0.5	UR	*0.4*	U
106-46-7	1,4-Dichlorobenzene	0.2	UR	0.2	UJ	0.2	UR	0.2	UJ	0.2	UR	0.2	U
95-50-1	1,2-Dichlorobenzene	*0.4*	UR	*0.4*	UJ	0.4	UR	0.4	UJ	*0.4*	UR	*0.4*	U
96-12-8	1,2-Dibromo-3-Chloropropane	1.	UR	1.	UJ	1.	UR	1.	UJ	1.	UR	1.	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA													
	SAMPLE ID ------->	016-S-0010-04 DL		016-S-0011-01		016-S-0011-01 DL		016-S-0011-04		016-S-0012-01		016-S-0012-01 RE	
	ORIGINAL ID ----->	016S001004		016S001101		016S001101		016S001104		016S001201		016S001201	
	LAB SAMPLE ID --->	5613-05DL		5613-06RE		5613-06DL		5613-07		5610-19		5610-19RE	
	ID FROM REPORT -->	016S001004		016S001101		016S001101		016S001104		016S001201		016S001201	
	SAMPLE DATE ----->	04/11/96		04/11/96		04/11/96		04/11/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/17/96		04/17/96		04/17/96		04/17/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/16/96		04/17/96		04/17/96		04/15/96		04/13/96		04/14/96	
	MATRIX ---------->	soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A	UG/KG	C
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
74-97-5	Chlorobromomethane	0.5	UR	0.1	U	3.	UR	0.1	U	0.1	U	0.1	UR
74-87-3	Chloromethane	3.	UR	0.6	U	14.	UR	0.6	U	0.6	U	0.6	UR
74-83-9	Bromomethane	7.	UR	1.	U	34.	UR	1.	U	1.	U	1.	UR
75-01-4	Vinyl chloride	4.	UR	0.9	U	22.	UR	0.9	U	0.9	U	0.9	UR
75-00-3	Chloroethane	2.	UR	0.3	U	8.	UR	0.3	U	0.3	U	0.3	UR
75-09-2	Methylene chloride	4.	UR	0.9	U	22.	UR	0.9	U	0.9	U	0.9	UR
67-64-1	Acetone	450.	UR	390.	J	390.	UR	160.		1.	U	1.	UR
75-15-0	Carbon disulfide	4.	UR	0.7	U	18.	UR	0.7	U	0.7	U	0.7	UR
75-35-4	1,1-Dichloroethene	6.	UR	1.	U	30.	UR	1.	U	1.	U	1.	UR
75-34-3	1,1-Dichloroethane	2.	UR	0.4	U	10.	UR	0.4	U	0.4	U	0.4	UR
156-59-2	cis-1,2-Dichloroethene	2.	UR	0.3	U	8.	UR	0.3	U	0.3	U	0.3	UR
156-60-5	trans-1,2-Dichloroethene	1.	UR	0.3	U	7.	UR	0.3	U	0.3	U	0.3	UR
67-66-3	Chloroform	2.	UR	0.3	U	9.	UR	0.3	U	0.3	U	0.3	UR
107-06-2	1,2-Dichloroethane	2.	UR	0.5	U	12.	UR	0.5	U	0.5	U	0.5	UR
78-93-3	2-Butanone (MEK)	9.	UR	2.	U	43.	UR	2.	U	2.	U	2.	UR
71-55-6	1,1,1-Trichloroethane	2.	UR	0.4	UJ	10.	UR	0.4	U	0.4	UJ	0.4	UR
56-23-5	Carbon tetrachloride	2.	UR	0.5	UJ	13.	UR	0.5	U	0.5	UJ	0.5	UR
75-27-4	Bromodichloromethane	5.	UR	1.	UJ	26.	UR	1.	U	1.	UJ	1.	UR
78-87-5	1,2-Dichloropropane	1.	UR	0.2	UJ	5.	UR	0.2	U	0.2	UJ	0.2	UR
10061-01-5	cis-1,3-Dichloropropene	2.	UR	0.3	UJ	8.	UR	0.3	U	0.3	UJ	0.3	UR
79-01-6	Trichloroethene	4.	UR	0.8	UJ	20.	UR	0.8	U	0.8	UJ	0.8	UR
124-48-1	Dibromochloromethane	2.	UR	0.5	UJ	12.	UR	0.5	U	0.5	UJ	0.5	UR
79-00-5	1,1,2-Trichloroethane	2.	UR	0.3	UJ	8.	UR	0.3	U	0.3	UJ	0.3	UR
71-43-2	Benzene	4.	UR	0.8	UJ	19.	UR	0.8	U	0.8	UJ	0.8	UR
10061-02-6	trans-1,3-Dichloropropene	3.	UR	0.6	UJ	16.	UR	0.6	U	0.6	UJ	0.6	UR
75-25-2	Bromoform	2.	UR	6.4	UJ	11.	UR	0.4	U	0.4	UJ	0.4	UR
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.	UR	1.	UJ	33.	UR	1.	U	1.	UJ	1.	UR
591-78-6	2-Hexanone	11.	UR	2.	UJ	57.	UR	2.	U	2.	UJ	2.	UR
127-18-4	Tetrachloroethene	4.	UR	0.8	UJ	21.	UR	0.8	U	0.8	UJ	0.8	UR
79-34-5	1,1,2,2-Tetrachloroethane	4.	UR	0.8	UJ	20.	UR	0.8	U	0.8	UJ	0.8	UR
106-93-4	1,2-Dibromoethane	5.	UR	1.	UJ	24.	UR	0.9	U	1.	UJ	1.	UR
108-88-3	Toluene	2.	UR	0.3	UJ	8.	UR	0.3	U	0.3	UJ	0.3	UR
108-90-7	Chlorobenzene	1.	UR	0.2	UJ	6.	UR	0.2	U	0.2	UJ	0.2	UR
100-41-4	Ethylbenzene	2.	UR	0.3	UJ	8.	UR	0.3	U	0.3	UJ	0.3	UR
100-42-5	Styrene	0.8	UR	0.2	UJ	4.	UR	0.2	U	0.2	UJ	0.2	UR
1330-20-7	Xylene (Total)	0.9	UR	0.2	UJ	5.	UR	0.2	U	0.2	UJ	0.2	UR

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA													
	SAMPLE ID ------->	016-S-0010-04 DL		016-S-0011-01		016-S-0011-01 DL		016-S-0011-04		016-S-0012-01		016-S-0012-01 RE	
	ORIGINAL ID ----->	016S001004		016S001101		016S001101		016S001104		016S001201		016S001201	
	LAB SAMPLE ID --->	5613-05DL		5613-06RE		5613-06DL		5613-07		5610-19		5610-19RE	
	ID FROM REPORT -->	016S001004		016S001101		016S001101		016S001104		016S001201		016S001201	
	SAMPLE DATE ----->	04/11/96		04/11/96		04/11/96		04/11/96		04/10/96		04/10/96	
	DATE EXTRACTED -->	04/17/96		04/17/96		04/17/96		04/17/96		04/15/96		04/15/96	
	DATE ANALYZED --->	04/16/96		04/17/96		04/17/96		04/15/96		04/13/96		04/14/96	
	MATRIX ---------->	Soil		soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A	UG/KG	C
CAS #	Parameter	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL	SITE16	VAL
541-73-1	1,3-Dichlorobenzene	2.	UR	0.5	UJ	11.	UR	0.4	U	0.4	UJ	0.4	UR
106-46-7	1,4-Dichlorobenzene	1	UR	0.2	UJ	5.	UR	0.2	U	0.2	UJ	2.	UR
95-50-1	1,2-Dichlorobenzene	2.	UR	0.4	UJ	11.	UR	0.4	U	0.4	UJ	0.4	UR
96-12-8	1,2-Dibromo-3-Chloropropane	5.	UR	1.	UJ	24.	UR	6.9	U	1.	UJ	1	UR

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA													
	SAMPLE ID ------->	016-S-0012-05		016-T-G001-01		016-G-GS01-01		016-G-GS02-01		016-G-GS03-01		016-G-GS04-01	
	ORIGINAL ID ----->	016S001205		016TG00101		016GGS0101		016GGS0201		016GGS0301		016GGS0401	
	LAB SAMPLE ID --->	5610-20		5659-06		5659-01		5659-02		5659-03		5659-04	
	ID FROM REPORT -->	016S001205		016TG00101		016GGS0101		016GGS0201		016GGS0301		016GGS0401	
	SAMPLE DATE ----->	04/10/96		05/09/96		05/09/96		05/09/96		05/09/96		05/09/96	
	DATE EXTRACTED -->	04/15/96											
	DATE ANALYZED --->	04/13/96		05/15/96		05/15/96		05/15/96		05/15/96		05/15/96	
	MATRIX ---------->	Soil		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/KG	A	UG/L	B	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter	SITE16	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL
74-97-5	Chlorobromomethane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
74-87-3	Chloromethane	0.6	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
74-83-9	Bromomethane	2.	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-01-4	Vinyl chloride	1.	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-00-3	Chloroethane	0.3	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-09-2	Methylene chloride	1.	U	1.		1.	U	1.	U	1.	U	1.	U
67-64-1	Acetone	38.	U	4.		0.3	UR	4.	UR	0.3	UR	5.	UR
75-15-0	Carbon disulfide	0.8	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-35-4	1,1-Dichloroethene	1.	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-34-3	1,1-Dichloroethane	0.4	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
156-59-2	cis-1,2-Dichloroethene	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
156-60-5	trans-1,2-Dichloroethene	0.3	U	0.3	U	0.3	U	0.3	U	8.		0.3	U
67-66-3	Chloroform	0.4	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
107-06-2	1,2-Dichloroethane	0.5	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
78-93-3	2-Butanone (MEK)	2.	U	0.2	U	0.2	UR	0.2	UR	0.2	UR	0.2	UR
71-55-6	1,1,1-Trichloroethane	0.4	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
56-23-5	Carbon tetrachloride	0.6	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-27-4	Bromodichloromethane	1.	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
78-87-5	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.4	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
79-01-6	Trichloroethene	0.9	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
124-48-1	Dibromochloromethane	0.6	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
79-00-5	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
71-43-2	Benzene	0.9	U	0.1	U	0.1	U	0.1	U	0.7		0.1	U
10061-02-6	trans-1,3-Dichloropropene	0.7	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-25-2	Bromoform	0.5	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.	U	0.2	U	2.		0.2	U	0.2	U	0.2	U
591-78-6	2-Hexanone	2.	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
127-18-4	Tetrachloroethene	1.	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.9	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
106-93-4	1,2-Dibromoethane	1.	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
108-88-3	Toluene	0.4	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
108-90-7	Chlorobenzene	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
100-41-4	Ethylbenzene	0.4	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
100-42-5	Styrene	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
1330-20-7	Xylene (Total)	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

+** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA													
	SAMPLE ID ------->	016-S-0012-05		016-1-GOO1-01		016-G-GS01-01		016-G-GS02-01		016-G-GS03-01		016-G-GS04-01	
	ORIGINAL ID ----->	016S001205		016TG00101		016GGS0101		016GGS0201		016GGS0301		016GGS0401	
	LAB SAMPLE ID --->	5610-20		5659-06		5659-01		5659-02		5659-03		5659-04	
	ID FROM REPORT -->	016S001205		016TG00101		016GGS0101		016GGS0201		016GGS0301		016GGS0401	
	SAMPLE DATE ----->	04/1am		05/09/96		05/09/96		05/09/96		05/09/96		05/09/96	
	DATE EXTRACTED -->	04/15/96											
	DATE ANALYZED --->	04/13/96		05/15/96		05/15/96		05/15/96		05/15/96		05/15/96	
	MATRIX ---------->	Soil		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/KG	A	UG/L	B	UG/L	A	UG/L	A	UG/L	A	UG/L	A
CAS #	Parameter	SITE16	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL
541-73-1	1,3-Dichlorobenzene	0.5	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
106-46-7	1,4-Dichlorobenzene	0.2	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
95-50-1	1,2-Dichlorobenzene	0.5	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
96-12-8	1,2-Dibromo-3-Chloropropane	1.	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA													
	SAMPLE ID ------->	016-G-OSOS-01		016-G-GS06-01		016-G-GS07-01		016-G-GS08-01		016-T-S001-01		016-T-S002-01	
	ORIGINAL ID ----->	016GGS0501		016GGS0601		016GGS0701		016GGS0801		016TS00101		016TS00201	
	LAB SAMPLE ID --->	5659-05		5657-01		5657-02		5657-03		5610-21		5610-22	
	ID FROM REPORT -->	016GGS0501		016GGS0601		016GGS0701		016GGS0801		016TS00101		016TS00201	
	SAMPLE DATE ----->	05/09/96		05/08/96		05/08/96		05/08/96		04/10/96		04/10/96	
	DATE EXTRACTED -->									04/16/96		04/16/96	
	DATE ANALYZED --->	05/17/96		05/17/96		05/15/96		05/15/96		04/12/96		04/12/96	
	MATRIX ---------->	Uater		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	B	UG/L	B
CAS #	Parameter	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16	VAL	SITE16	VAL
74-97-5	Chlorobromomethane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
74-87-3	Chloromethane	0.2	U	0.2	U	0.5		0.2	U	0.2	U	0.2	U
74-83-9	Bromomethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-01-4	Vinyl chloride	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-00-3	Chloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-09-2	Methylene chloride	1.	U	1.	U	1.	U	1.	U	1.		1.	
67-64-1	Acetone	5.	UR	4.	UR	5.	UR	3.	UR	3.		4.	
75-15-0	Carbon disulfide	0.2	U	0.2	U	0.2	U	0.2	U	0.4		0.4	
75-35-4	1,1-Dichloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-34-3	1,1-Dichloroethane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
156-59-2	cis-1,2-Dichloroethene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
156-60-5	trans-1,2-Dichloroethene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
67-66-3	Chloroform	0.1	U	0.1	U	01	U	0.1	U	0.1		0.1	
107-06-2	1,2-Dichloroethane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
78-93-3	2-Butanone (MEK)	2.	J	0.2	UR	0.2	UR	0.2	UR	0.2	U	0.2	U
71-55-6	1,1,1-Trichloroethane	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
56-23-5	Carbon tetrachloride	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-27-4	Bromodichloromethane	0.1	U	0.1	U	0.1	U	0.1	U	0.2		0.2	
78-87-5	1,2-Dichloropropane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
79-01-6	Trichloroethene	0.1	U	0.1	U	0.1	U	01	U	0.1	U	0.1	U
124-48-1	Dibromochloromethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
79-00-5	1,1,2-Trichloroethane	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
71-43-2	Benzene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
75-25-2	Bromoform	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
591-78-6	2-Hexanone	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
127-18-4	Tetrachloroethene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
106-93-4	1,2-Dibromoethane	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
108-88-3	Toluene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
108-90-7	Chlorobenzene	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
100-41-4	Ethylbenzene	0.1	U	01	U	0.1	U	0.1	U	0.1	U	0.1	U
100-42-5	Styrene	0.1	U	01	U	0.1	U	0.1	U	0.1	U	0.1	U
1330-20-7	Xylene (Total)	0.1	U	01	U	0.1	U	0.1	U	0.1	U	0.1	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA													
	SAMPLE ID ------->	016-G-GS05-01		016-G-GS06-01		016-G-GS07-01		016-G-GS08-01		016-T-S001-01		016-T-S002-01	
	ORIGINAL ID ----->	016GGS0501		016GGS0601		016GGS0701		016GGS0801		016TS00101		016TS00201	
	LAB SAMPLE ID --->	5659-05		5657-01		5657-02		5657-03		5610-21		5610-22	
	ID FROM REPORT -->	D16GGS0501		016GGS0601		016GGS0701		016GGS0801		016TS00101		016TS00201	
	SAMPLE DATE ----->	05/09/96		05/08/96		05/08/96		05/08/96		04/10/96		04/10/96	
	DATE EXTRACTED -->									04/16/96		04/16/96	
	DATE ANALYZED --->	05/17/96		05/17/96		05/15/96		05/15/96		04/12/96		04/12/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	A	UG/L	A	UG/L	B	UG/L	B
CAS #	Parameter	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16W	VAL	SITE16	VAL	SITE16	VAL
541-73-1	1,3-Dichlorobenzene	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
106-46-7	1,4-Dichlorobenzene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
95-50-1	1,2-Dichlorobenzene	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA								
	SAMPLE ID ------->	016-T-S003-01		016-T-W001-01				
	ORIGINAL ID ----->	016TS00301		016TW00101				
	LAB SAMPLE ID --->	5613-08		5671-05				
	ID FROM REPORT -->	016TS00301		016TW00101				
	SAMPLE DATE ----->	04/11/96		05/14/96				
	DATE EXTRACTED -->	04/17/96						
	DATE ANALYZED --->	04/17/96		05/17/96				
	MATRIX ---------->	Water		Water				
	UNITS ---------->	UG/L	B	UG/L	A			
CAS #	Parameter	SITE16	VAL	SITEW16	VAL			
74-97-5	Chlorobromomethane	0.1	U	0.1	U			
74-87-3	Chloromethane	0.2	U	0.2	U			
74-83-9	Bromomethane	0.2	U	0.2	U			
75-01-4	Vinyl chloride	0.2	U	0.2	U			
75-00-3	Chloroethane	0.2	U	0.2	U			
75-09-2	Methylene chloride	1.		2.				
67-64-1	Acetone	6.		3.				
75-15-0	Carbon disulfide	0.2	U	0.2	U			
75-35-4	1,1-Dichloroethene	0.2	U	0.2	U			
75-34-3	1,1-Dichloroethane	0.1	U	0.1	U			
156-59-2	cis-1,2-Dichloroethene	0.3	U	0.3	U			
156-60-5	trans-1,2-Dichloroethene	0.3	U	0.3	U			
67-66-3	Chloroform	0.1	U	0.1	U			
107-06-2	1,2-Dichloroethane	0.1	U	0.1	U			
78-93-3	2-Butanone (MEK)	0.2	U	0.2	U			
71-55-6	1,1,1-Trichloroethane	0.1	U	0.1	U			
56-23-5	Carbon tetrachloride	0.2	U	0.2	U			
75-27-4	Bromodichloromethane	0.1	U	0.1	U			
78-87-5	1,2-Dichloropropane	0.2	U	0.2	U			
10061-01-5	cis-1,3-Dichloropropene	0.1	U	0.1	U			
79-01-6	Trichloroethene	0.1	U	0.1	U			
124-48-1	Dibromochloromethane	0.3	U	0.3	U			
79-00-5	1,1,2-Trichloroethane	0.3	U	0.3	U			
71-43-2	Benzene	0.1	U	0.1	U			
10061-02-6	trans-1,3-Dichloropropene	0.2	U	0.2	U			
75-25-2	Bromoform	0.2	U	0.2	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)	0.2	U	0.2	U			
591-78-6	2-Hexanone	0.4	U	0.4	U			
127-18-4	Tetrachloroethene	0.2	U	0.2	U			
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U	0.2	U			
106-93-4	1,2-Dibromoethane	0.6	U	0.6	U			
108-88-3	Toluene	0.1	U	0.1	U			
108-90-7	Chlorobenzene	0.1	U	0.1	U			
100-41-4	Ethylbenzene	0.1	U	0.1	U			
100-42-5	Styrene	0.1	U	0.1	U			
1330-20-7	Xylene (Total)	0.1	U	6.1	U			

*** Validation Complete ***

NAVAL AIR STATION PENSACOLA
CATEGORY 7, SITE 16
Brush Disposal Area

VOA								
	SAMPLE ID ------->	016-T-S003-01		016-T-W001-01				
	ORIGINAL ID ----->	016TS00301		016TW00101				
	LAB SAMPLE ID --->	5613-08		5671-05				
	ID FROM REPORT -->	016TS00301		016TW00101				
	SAMPLE DATE ----->	04/11/96		05/14/96				
	DATE EXTRACTED -->	04/17/96						
	DATE ANALYZED --->	04/17/96		05/17/96				
	MATRIX ---------->	Water		Water				
	UNITS ---------->	UG/L	B	UG/L	A			
CAS #	Parameter	SITE16	VAL	SITEW16	VAL			
541-73-1	1,3-Dichlorobenzene	0.3	U	0.3	U			
106-46-7	1,4-Dichforobenzene	0.4	U	0.4	U			
95-50-1	1,2-Dichlorobenzene	0.4	U	0.4	U			
96-12-8	1,2-Dibromo-3-Chloropropane	0.8	U	0.8	U			

*** Validation Complete ***

Appendix F

Grain *Size* Analysis Results

1

MISC. INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0165000104

Lab Name: S-CUBED Contract:

Lab Code: S3 Case No.: 0070-00038 SAS No.: SDG No.: SITE 16

Matrix (soil/water): SOIL Lab Sample ID: 5610-03

Level (low/med): LOW Date Received: 04/11/96

% Solids: NA

CAS No.	Analyte	Dil Fact.	Concentration	C	Q	M	Units
S-100	> 4.75mm	1.0		U		NA	%
S-101	4.75mm to 2.00mm	1.0		U		NA	%
s-102	2.00mm to 425um	1.0	43.3			G	%
S-103	425um to 75um	1.0	54.7			G	%
S-104	c 75 um	1.0	1.9			G	%
S-105	% Recovery	1.0	99.9			G	%

Comments:

1

MISC. INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

016S000607

Lab Name: S-CUBED Contract:

Lab Code: S3 Case No.: 0070-00038 SAS No.: SDG No.: SITE 16

Matrix (soil/water): SOIL Lab Sample ID: 5610-11

Level (low/med): LOW Date Received: 04/11/96

% Solids: NA

CAS No.	Analyte	Dil Pact.	Concentration	C	Q	M	Units
5-100	> 4.75mm	1.0		U		NA	%
3-101	4.75mm to 2.00mm	1.0		U		NA	%
5-102	2.00mm to 425um	1.0	20.0			3	%
3-103	425um to 75um	1.0	78.8			3	%
3-104	< 75 um	1.0	0.94			3	%
5-105	% Recovery	1.0	99.7			3	%

Comments:

FORM I - MISC ILMO2.0

1

MISC. INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

016S001004

Lab Name: S-CUBED Contract:

Lab Code: S3 Case No.: 0070-00038 SAS No.: SDG No.: SITE 16

Matrix (soil/water): SOIL Lab Sample ID: 5613-05

Level (low/med): LOW Date Received: 04/13/96

% Solids: NA

CAS No.	Analyte	Dil Fact.	Concentration ~~Concentration~~	C ~~C~~	Q	M	Units
5-100	> 4.75mm	1.0		U		NA	%
S-101	4.75mm to 2.00mm	1.0	0.24			G	%
S-102	2.00mm to 425um	1.0	37.5			G	%
S-103	425um to 75um	1.0	58.5			G	%
S-104	< 75 um	1.0	3.5			G	%
S-105	% Recovery	1.0	99.8			G	%

Comments:

MISC. INORGANIC ANALYSES DATA SNEET

EPA SAMPLE NO.

016S001004RE

Lab Name: S-CUBED Contract:

Lab Code: S3 Case No.: 0070-00038 SAS No.: SPG No.: SITE 16

Matrix (soil/water) : SOIL Lab Sample ID: 5613-05REP

Level (low/med) : LOW Date Received: 04/13/96

% Solids: NA

CAS No.	Analyte	Dil Fact.	Concentration	C	Q	M	Units
S-100	> 4.75mm	1.0		J		NA	%
S-101	4.75mm to 2.00mm	1.0	0.48			G	%
S-102	2.00mm to 425um	1.0	37.1			G	%
S-103	425um to 75um	1.0	58.5			G	%
S-104	< 75 um	1.0	3.6			G	%
6-105	% Recovery	1.0	99.3			G	%

Comments :

MAXWELL
S-CUBBD

PROJECT: 0070-00038
ANALYST: LC
DATE: 4/18/96

GRAIN SIZE (D422)

SAMPLE ID.	INITIAL TARE (g)	WET WT. (g)	DRY WT. (g)	INITIAL WT. (g)	TOTAL WT. RECOVERY (g)	%REC (g)	CLIENT SAMPLE ID
5613-05	5.29	200.38	177.44	172.15	171.77	99.78	0168001004
5613-05REP	5.55	200.54	176.48	170.93	170.36	99.67	0168001004REP
5614-03	5.49	200.66	193.20	189.71	189.50	99.89	0225000107
5614-06	5.34	200.46	194.12	188.78	188.59	99.90	0228000207

MAXWELL
I-CUBED

PROJECT: 0070-00030
ANALYST: MM,CC
DATE: 4/8/96

GRAIN SIZE (D422)

SAMPLE ID.	INITIAL TARE (g)	WET WT. (g)	DRY WT. (g)	INITIAL WT.(g)	TOTAL WT. RECOVERY(g)	%REC (g)	CLIENT SAMPLE ID
5602-03	5.46	200.04	191.22	186.26	185.85	99.38	008S000407
5602-07	5.54	201.13	190.00	184.46	183.87	99.60	008S000707
5606-04	5.52	200.14	184.51	178.99	178.31	99.62	0048000206
5606-21	5.53	200.11	191.4	185.65	185.40	99.87	0078000207
5606-25	5.49	200.05	192.18	186.69	186.17	99.32	0078000407
5610-03	5.49	200.06	188.34	182.85	162.60	99.86	016S000104
5610-11	5.53	200.08	192.16	186.63	186.10	99.72	0165000407

MAXWELL
S-CUBED

PROJECT: 0070-00038
ANALYST: LC
DATE: 4/19/96

GRAIN SIZE
(D422)

SAMPLE ID	SAMPLE WT. g)	REATER THA 4.75mm	BETWEEN .75 & 2.00m	BETWEEN 00mm & 425	BETWEEN 425 & 75um	MALLER THA 75um	TOTAL WT. ECOVERED(	CLIENT SAMPLE ID
5613-05	172.15	0	0.41	64.59	100.72	6.05	171.77	016S001004
5613-05REP	170.93	0	0.82	63.48	99.95	6.11	170.36	016S001004REP
5614-03	189.71	0	2.06	91.65	95.17	0.62	189.50	022S000107
5614-06	188.78	0.59	0.20	74.26	112.97	0.57	188.59	0221000209

MAXWELL
S-CUBED

PROJECT: 0070-00038
ANALYST: LC
DATE: 4/18/96

GRAIN SIZE
(D422)

SAMPLE ID	SAMPLE WT. (g)	REATER THA 4.75mm	BETWEEN .75 & 2.00m	BETWEEN 00mm & 425	BETWEEN 425 & 75um	MALLER THA 75um	TOTAL WT. ECOVERED(	CLIENT SAMPLE ID
5602-03	186.26	0	0	55.11		0.98	185.85	008S000407
5602-07	184.46	2.57	5.74	47.04	127.19	1.33	183.87	008S000707
5606-04	178.99	0	0	40.31	136.73	1.27	178.31	004S000206
5606-21	185.65	0	0	81.57	103.51	0.32	185.40	007S000207
5606-25	186.69	0	0.26	83.48	101.76	0.67	186.17	007S000407
5610-03	182.85	0	0	79.14	99.94	3.52	182.60	016S000104
5610-11	186.63	0	0	37.28	147.06	1.76	186.10	016S000607

MAXWELL
S-CUBED

GRAINSIZE
(0422)

PROJECT: 0070-00038
ANALYST: LC
DATE: 4/19/96

SAMPLE ID	%Recovery Greater than 4.75mm	%Recovery Between 4.75 & 2.00mm	\Recovery Between .00mm & 425u	%Recovery Between 425 & 75um	%Recovery Smaller than 7Sum	Client Sample ID
5613 05	0.00	0.24	37.52	58.51	3.51	0165001004
5613-05REP	0.00	0.48	37.14	58.47	3.57	0165001004REP
5614-03	0.00	1.09	48.31	50.17	0.33	0228000107
5614-06	0.31	0.11	39.34	59.84	0.30	0228000207

MAXWELL
S-CUBED

PROJECT1 0070-00038
ANALYST : LC
DATE: 4/18/96

GRAINSIZE
(D422)

SAMPLE ID	%Recovery Greater than 4.75mm	\Recovery Between 4.75 & 2.00mm	%Recovery Between 2.00mm & 425um	%Recovery Between 425 & 75um	%Recovery Smaller than 75um	Client Sample ID
5602-03	0.00	0.00	29.59	69.67	0.53	008S000407
5602-07	1.39	3.11	25.50	68.95	0.72	008S000707
5606-04	0.00	0.00	22.52	76.39	0.71	0048000206
5606-21	0.00	0.00	43.94	55.76	0.17	0078000207
5606-25	0.00	0.14	44.72	54.51	0.36	0078000407
5610-03	0.00	0.00	43.28	54.66	1.93	0168000104
5610-11	0.00	0.00	19.98	78.80	0.94	016S000607

~~33A~~

14