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CONTAMINATION ASSESSMENT/
REMEDIAL ACTIVITIES INVESTIGATION
SOIL NORTH OF BUILDING 648 (SITE 31)
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

INTERIM DATA REPORT

November 1992

Contract N62467-884-0200

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19 ABSTRACT (Continue on reverse if necessary and identify by block number) This Interim Data Report contains the results of Phase I of the Contamination Assessment/Remedial Activities Investigation conducted at the Soil North of Building 648 (Site 31), located on the Naval Air Station in Pensacola, Florida. This work was conducted as part of the U.S. Navy's Installation Restoration Program. The objective of the Phase I investigation at Site 31 was to identify principal areas and primary contaminants of concern at the site and to provide recommendations for subsequent phases of investigation. This investigation was the first step in the completion of a Remedial Investigation/Feasibility Study for the site. Site 31 consists of an approximately 175-foot by 225-foot, unpaved area north of Building 648. The site was previously used as a parking area and for the disposal of paint wastes. The results of this investigation indicate that significant levels of soil and groundwater contamination are absent on Site 31. However, limited soil and groundwater contamination are present on the site. Metals, TRPHs, VOCs, PAHs, and phenols are the primary contaminants and were usually detected at			
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* Indicates item is all or partly site-specific.

concentrations below the applicable regulatory limits. It is not clear whether any of the detected contaminants are associated with past site activities, Limited additional assessment activities are required at Site 31.

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RECORD OF DOCUMENT CHANGES

Revisions to this document were made based on comments received from the U.S. Environmental Protection Agency, Florida Department of Environmental Regulation, Florida Department of Natural Resources, and National Oceanic and Atmospheric Administration. All revisions are in bold and enclosed in brackets to denote changes to the last version of this document.

EXECUTIVE SUMMARY

As part of the U.S. Navy's Installation Restoration Program, Phase I of the Contamination Assessment/Remedial Activities Investigation was conducted for the Soil North of Building 648 (Site 31), located on the Naval Air Station in Pensacola, Florida. This work was performed by Ecology and Environment, Inc., (E & E) under contract to the Southern Division, U.S. Navy, Naval Facilities Engineering Command.

Site 31 is an approximately 175- by 225-foot unpaved area located adjacent to and north of Building 648 and adjacent to and west of Hurray Road. Building 648 has been used for painting operations since 1949. Until 1973, paint waste and spent paint thinner were discarded in the unpaved area north of the building.

The purpose of the Phase I investigation was to identify principal areas and primary contaminants of concern at the site and to provide recommendations for subsequent phases of investigation. The Phase I fieldwork included an aerial photograph and existing data analysis; site reconnaissance; surface emissions survey and particulate air screening; radiation survey; utilities survey; the collection and analysis of soil and groundwater samples; and a hydrologic assessment.

Overall, significant levels of soil and groundwater contamination are not present on Site 31. However, limited soil and groundwater contamination are present on Site 31. With the exception of manganese and iron detected slightly above the FSDWSs in the groundwater sample from permanent monitoring well GM01, no other compounds or analytes were detected above applicable regulatory limits. The primary contaminants were limited to low concentrations of metals, total recoverable petroleum hydrocarbons (TRPHs), volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and phenols. It is not clear

whether any of the detected contaminants are associated with past site activities.

Although soil samples collected at Site 31 display relatively low levels of metals contamination, the presence of lead, detected in samples collected from borings located in the north-central portion of the site, and chromium, detected in samples collected from borings located directly north of Building 648, may be attributable to areas of waste paint, solvent, and paint sludge disposal. The distribution of low-level TRPE concentrations suggests that an on-site waste oil underground storage tank, the previous usage of the site as a parking lot, and/or an ambient source such as the adjacent roads, may be responsible. Although PAHs and phenols were detected at only slightly elevated concentrations, the occurrence of these compounds could also be due in part to the parking lot that was historically located on the site and the leakage of fuels, oils or lubricants from parked vehicles.

Manganese and iron were the only metals detected in groundwater samples above the Florida Secondary Drinking Water Standards (FSDWSs). However, it is not certain whether these detections represent actual contamination or are the result of acid preservation of unfiltered samples. Chromium was detected at a concentration only slightly below the Florida Primary Drinking Water Standard (FPDWS). The metals detected in groundwater samples tended to occur in the wells on the east (downgradient) side of the site and may be indicative of contamination from past disposal practices of paint wastes containing these metals. Chloroform was detected at relatively low concentrations in the permanent monitoring well as part of this study and also in Geraghty and Hiller's 1984 Verification Study. The presence of chloroform and the historical disposal of solvents at the site suggest a possible attribution to the site. However, this compound was not detected in the groundwater samples collected on Site 27, which is located approximately 600 feet hydraulically downgradient of Site 31. The remaining detected organic compounds (methylene chloride, acetone, carbon disulfide, and bis(2-ethylhexyl)phthalate) are common laboratory artifacts and do not appear to be associated with past or present site activities.

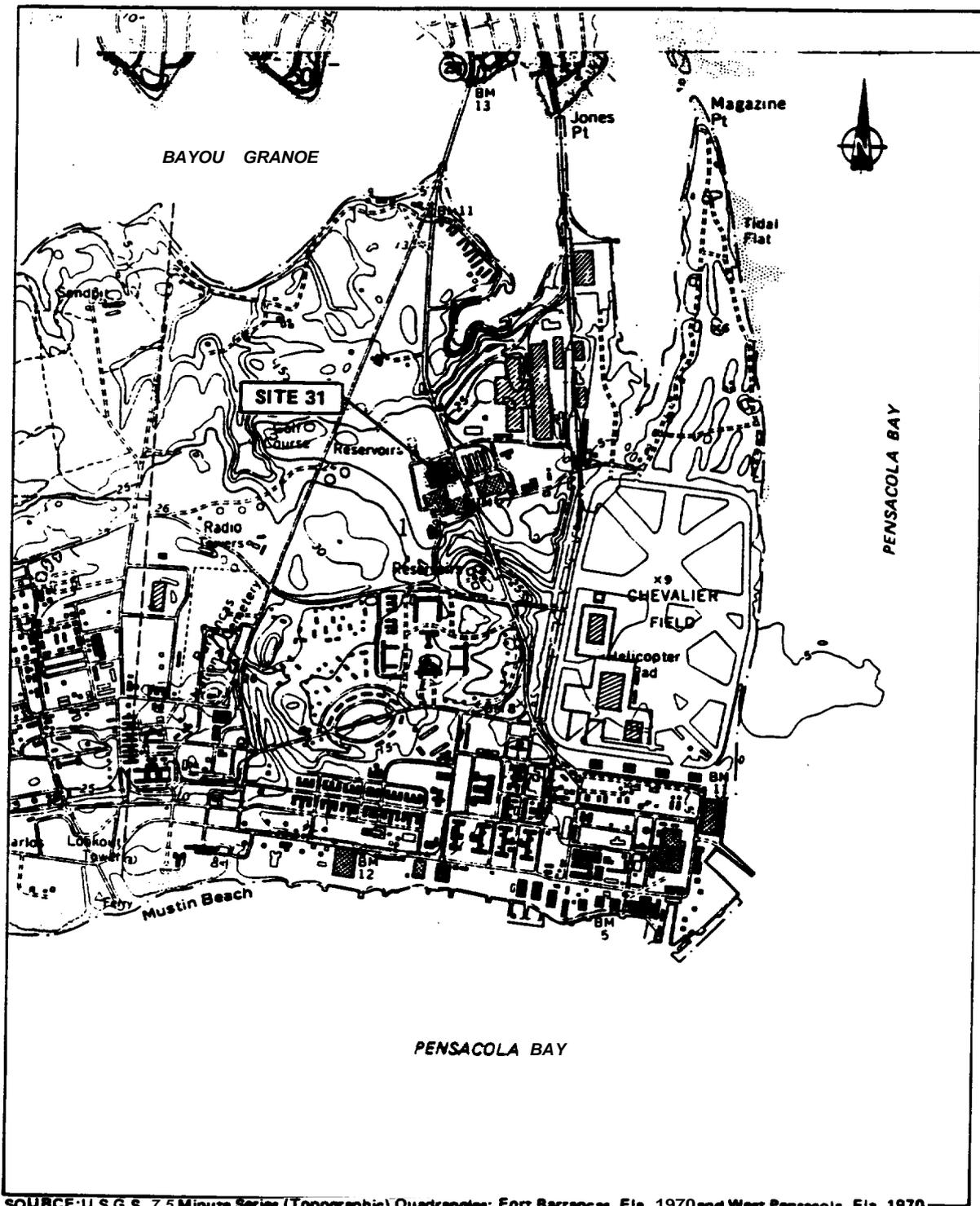
Limited additional assessment activities are required at Site 31.

1. INTRODUCTION

This Interim Data Report presents the findings of the Phase I investigation activities performed for Site 31, Soil North of Building 648, located at the Naval Air Station (NAS) in Pensacola, Escambia County, Florida. This report has been prepared by Ecology and Environment, Inc., (E & E) for the Southern Division, U.S. Navy, Naval Facilities Engineering Command, under Contract No. N62467-88-C-0200. The information presented in this report is based on information and file documents provided by the Navy and on information gathered during the Phase I fieldwork conducted on the site from April 1991 to August 1991. The investigation was conducted in accordance with the administrative documents prepared by E & E for this project, which include the June 1990 Project Management Plan, June 1990 Site Management Plan, July 1990 Generic Quality Assurance Project Plan (GQAPP), July 1990 General Health and Safety Plan, and June 1990 Contamination Assessment/Remedial Activities Investigation Work Plan--Group M with appended Site-Specific Health and Safety Plan and Site-Specific Quality Assurance Plan. All references to these documents in this report apply only to the 1990 versions.

Site 31 is an approximately 175- by 225-foot, unpaved area located adjacent to and north of Building 648 and adjacent to and west of Murray Road (see figures 1-1 and 1-2). North of the site is a large, tree-covered park area, and immediately west of the site is a paved driveway. Most of the site is enclosed by an iron and concrete fence. Permanent shallow monitoring well GM01 is located inside the fence near the eastern edge of the site.

Building 648 has been used for painting operations since 1949 (Naval Energy and Environmental Support Activity [NEESA] 1983). Until



SOURCE: U.S.G.S. 7.5 Minute Series (Topographic) Quadrangles: Fort Barrancas, Fla. 1970 and West Pensacola, Fla. 1970, Photorevised 1987 Ecology and Environment Inc., 1991

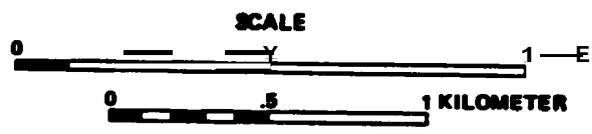
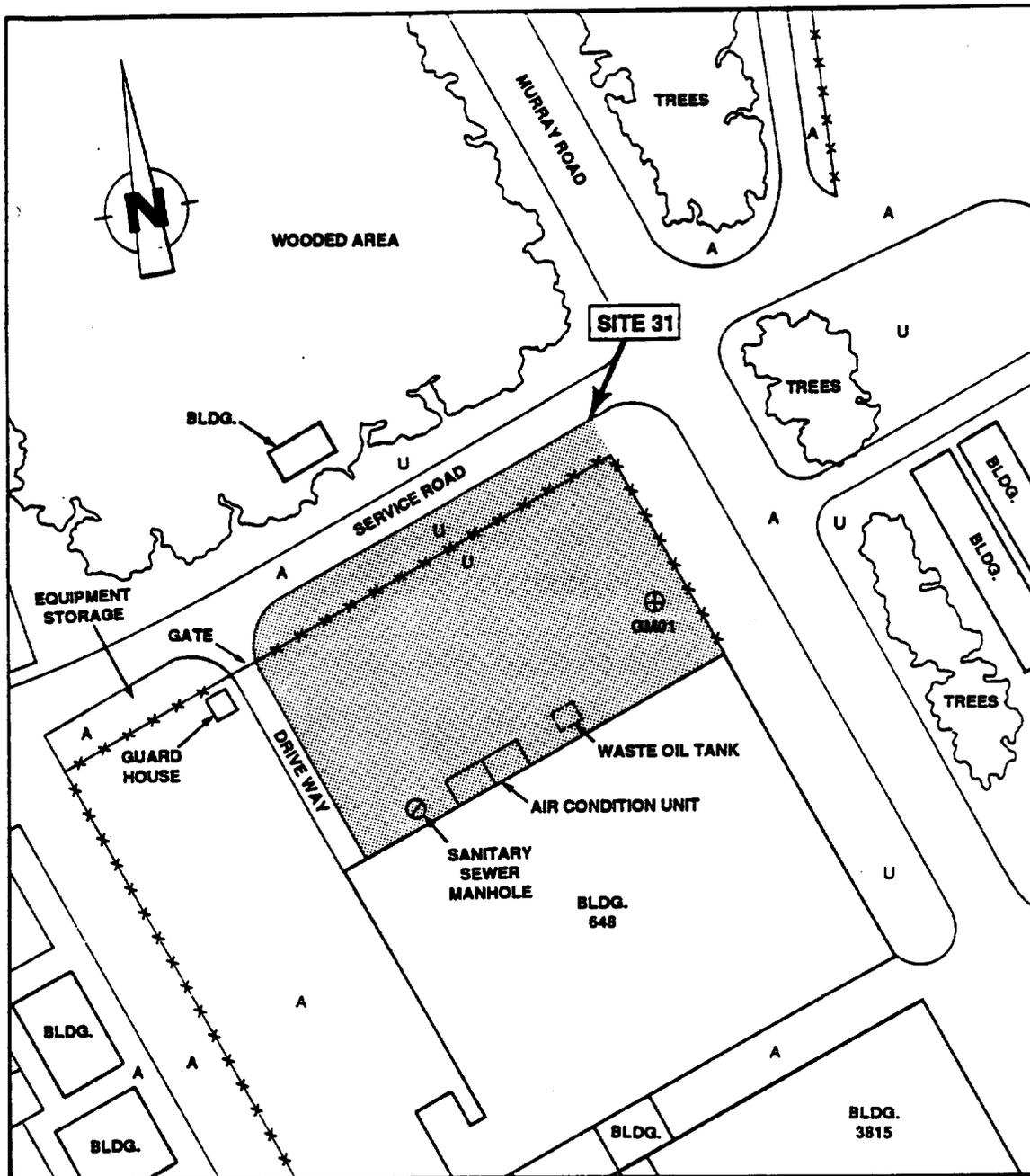
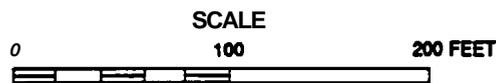


Figure 1-1 LOCATION MAP - NAS PENSACOLA SITE 31

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SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1987; Ecology and Environment, Inc., 1991



- KEY:
- | | | | |
|-----------|--------------------|------|--|
| BLDG. 648 | Building | U | Unpaved Area |
| | Trees | | Sanitary Sewer Manhole |
| | Fence | | Existing Permanent Shallow Monitoring Well |
| A | Asphalt-Paved Area | GM01 | Permanent Monitoring Well Number |

Figure 1-2 SITE VICINITY MAP — NAS PENSACOLA SITE 31

1973, paint waste and spent paint thinner were discarded in the unpaved area north of the building. A complete site description and history are presented in the Group M investigation work plan.

The purpose of the Phase I investigation was to identify principal areas and primary contaminants of concern at the site and to provide recommendations for subsequent phases of investigation. The Phase I fieldwork included an aerial photograph and existing data analysis, site reconnaissance, habitat/biota survey, surface emissions survey and particulate air screening, radiation survey, utilities survey, and the collection and analysis of soil and groundwater samples. In addition, a hydrologic assessment, which included the determination of groundwater elevations, flow direction, and hydraulic gradient, was performed at the site. The recommendations for additional work at this site will be incorporated in the revised Group M work plan.

2. INVESTIGATION METHODOLOGY

2.1 AERIAL PHOTOGRAPH AND EXISTING DATA ANALYSIS

Prior to the initiation of fieldwork, E & E personnel examined all available aerial photographs of NAS Pensacola for past and present conditions, features, and developments that might have had direct relevance to the fieldwork methodology. The aerial photograph analysis task involved assembling and stereoscopically analyzing historical photographic imagery and topographic maps available for the site area. Photographs were analyzed for past and present surface conditions, drainage, and land use. The aerial photographs used in the analysis are listed in Table 2-1. The photographs were analyzed to obtain information regarding the evolution of site features that might have affected hydrologic conditions and to aid in the performance of such tasks as field reconnaissance and monitoring well placement.

2.2 SITE RECONNAISSANCE

A field reconnaissance survey was conducted on and around the site. Available aerial photographs and maps were used as guides in locating surface features. Visual inspections were made of surface conditions, vegetation, surface drainage patterns, and areas of exposed site debris. These observations of surface conditions on the site were used to update the site map.

During the reconnaissance survey, the field team identified areas that presented the most suitable conditions for the establishment of survey grid baselines. The grid system used during the Phase I field investigation of Site 31 is discussed in Section 2.4.

Table 2-1

PHOTOGRAPHS AND MAPS USED IN THE AERIAL PHOTOGRAPH ANALYSIS
NAS PENSACOLA SITE 31

Source	Photograph/Map Number	Date	Scale
Florida Department of Transportation	PD-3886-12-04	10/26/89	1:24,000
	PD-3618-12-03	11/21/86	1:24,000
	PD-3109-12-04	9/22/83	1:24,000
	PD-2684-11-03	3/6/81	1:24,000
	PD-2684-12B-05	3/6/81	1:24,000
	PO-2681-11-04	3/6/81	1:24,000
	PD-1888-11-03	4/28/76	1:24,000
	PD-1331-11-03	5/4/73	1:24,000
	PD-1331-11-04	5/4/73	1:24,000
	PD-868-5-08	4/6/70	1:24,000
	PD-868-4-09	4/6/70	1:24,000
	PD-868-4-10	4/6/70	1:24,000
	PD-616-8-05	3/25/68	1:24,000
	PD-285-8-03	10/8/64	1:24,000
	PD-285-7-03	10/8/64	1:24,000
	PD-285-7-01	10/8/64	1:24,000
	PUS-54-3-2	11/12/61	1:24,000
U.S. Department of Agriculture	CPF-1V-78	1/3/58	1:24,000
	CPF-4H-17	1/22/51	1:24,000

14[NASP]UN8058:T0364/668/23

Source: Ecology and Environment, Inc., 1992.

The reconnaissance survey team utilized radiation and air monitoring equipment during walkovers of site areas, in accordance with Section 6.1.1 of the GQAPP. All findings of the physical reconnaissance were mapped in detail and recorded in the field logbook.

2.3 HABITAT/BIOTA SURVEY

A habitat/biota survey was conducted for the site, as well as an evaluation of applicable literature pertaining to NAS Pensacola. During the physical reconnaissance, an E 6 E biologist/ecologist determined the on-site terrestrial habitats and the surrounding habitats that could be affected by off-site contaminant migration. During the walkover survey, rare, threatened, and endangered species and their potential habitats were identified, and general site conditions were evaluated regarding the site's ability to support viable populations of plants and animals.

2.4 SURVEY GRID

The survey effort required the initial establishment of a grid system over the study area. To construct the grid, baseline transects were established using a transit survey instrument and flagged at 25-foot intervals. The grid system was referenced to an arbitrarily established origin point using the transit and a tape measure. Grid points were flagged and numbered as follows:

$$N n_1 + yy, E n_2 + zz,$$

where:

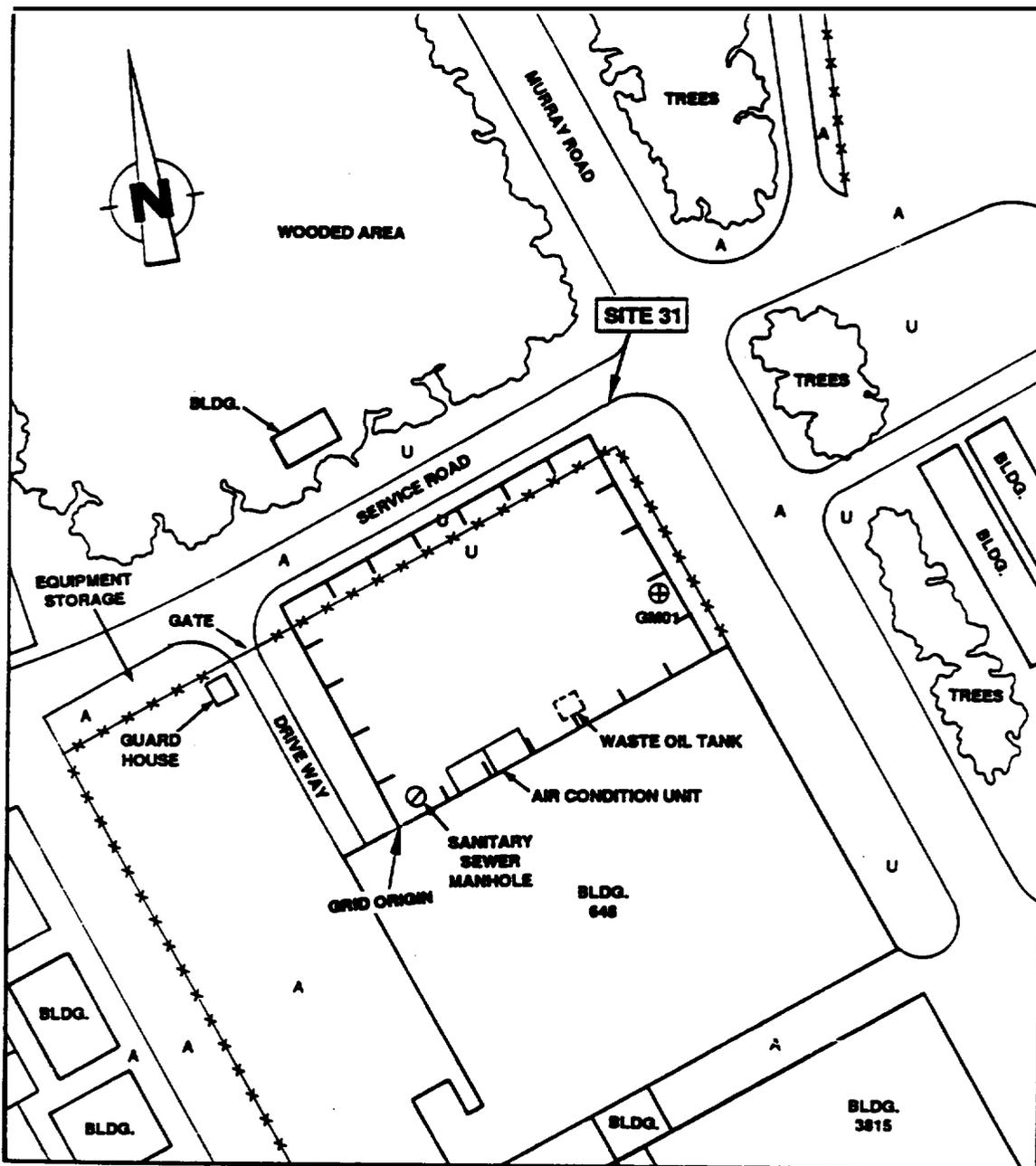
n_1 = Distance in 100-foot increments north (N) from the origin point; and

n_2 = Distance in 100-foot increments east (E) from the origin point.

yy = Additional distance in feet north from the nearest previously located 100-foot increment from the grid origin; and

zz = Additional distance in feet east from the nearest previously located 100-foot increment from the grid origin.

Figure 2-1 shows the location of the origin point and survey grid system established across Site 31 and the surrounding area.



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1967; Ecology and Environment, Inc., 1991

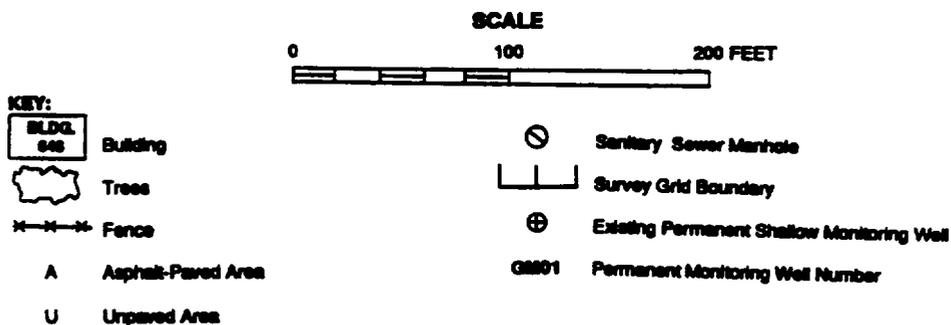


Figure 2-1 SURVEY GRID MAP — NAS PENSACOLA SITE 31

2.5 OVA **SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SCREENING**

Following the establishment of the survey grid network, a surface emissions survey was conducted using an organic vapor analyzer (OVA). The survey was conducted in accordance with Section 6.1.1 of the GQAPP. Measurements were made at each established grid point, and readings were recorded in the field logbook. In addition, preliminary air screening was conducted using a Mini-Ram particulate monitor to determine if the site represents a source of particulates in the air. The particulate air screening was conducted in accordance with Section 6.1.1 of the GQAPP. The locations of the particulate air screening measurements are shown on Figure 2-2.

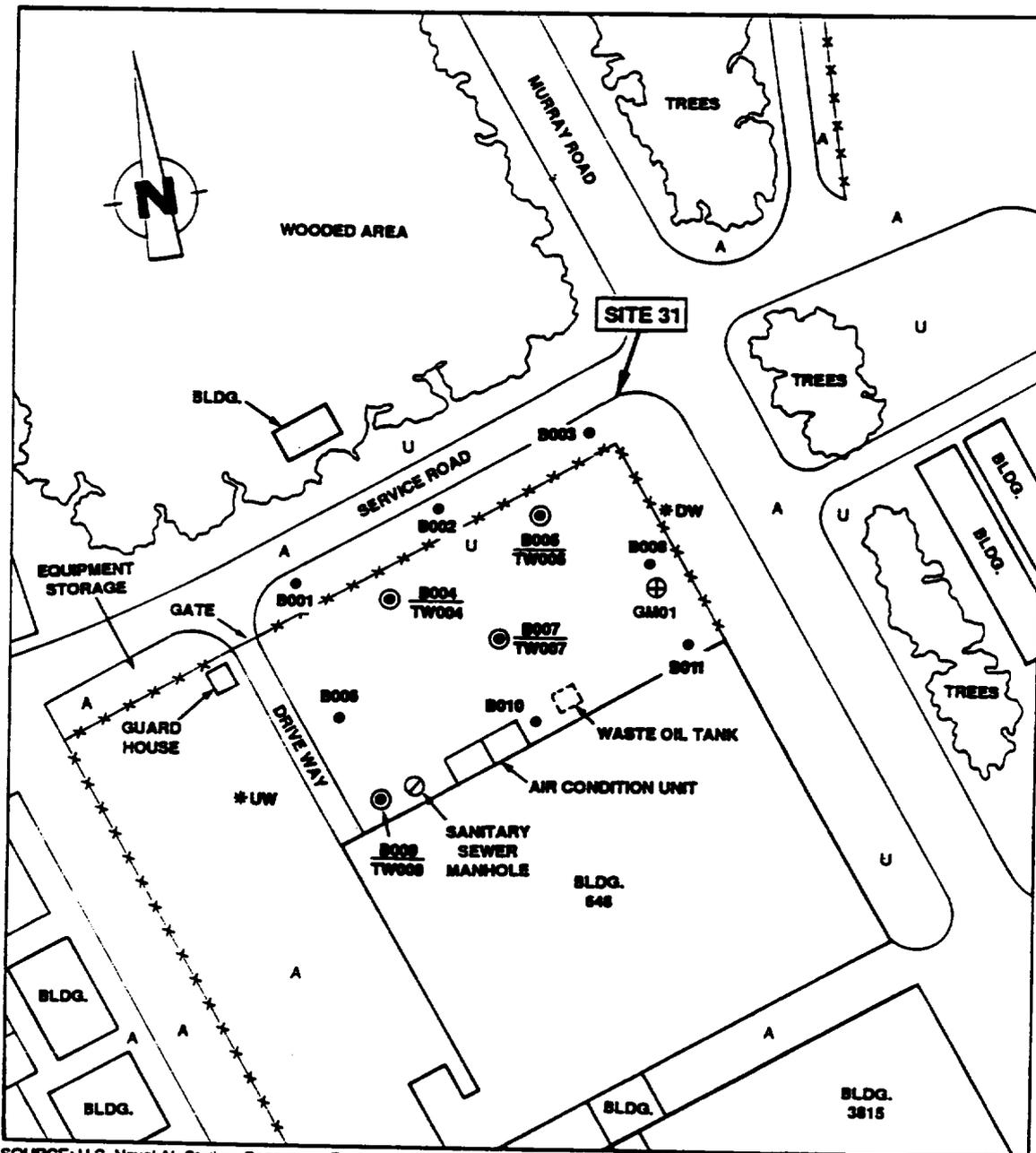
2.6 RADIATION SURVEY

A radiation survey was conducted at Site 31 using a Bicron Micro-R-meter, an Eberline ESP-2 gamma scintillator with an attached 2-inch sodium iodide (NaI) probe, and a Bicron Surveyor-M with an attached Pancake Geiger Muller probe (PGM) with a 1-inch NaI probe. The survey was conducted in accordance with Section 6.3.6 of the GQAPP.

The radiation survey was conducted by obtaining measurements at each 25-foot interval grid coordinate. Readings for each grid coordinate, as well as any readings above background, were recorded on radiation survey forms. The Micro-R-meter reads gamma radiation levels in microRoentgens per hour ($\mu\text{R/hr}$). The ESP-2 gamma scintillator reads gamma radiation levels in counts per minute (cpm). Counts per minute are converted into disintegrations per minute (dpm) by manually dividing the cpm by the efficiency factor of the instrument. The efficiency factor for the ESP-2 with the 2-inch NaI probe is 0.15. The Surveyor-M reads alpha, beta, and gamma radiation in cpm.

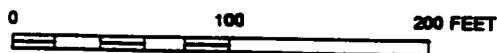
2.7 GEOPHYSICAL SURVEY

A formal geophysical survey was not conducted at Site 31. The proximity of Building 648, the numerous underground utilities located on site, and the fence that borders the site would have caused excessive interference with the geophysical data. Interpretation of these data would have probably resulted in erroneous conclusions.



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1987; Ecology and Environment, Inc., 1991

SCALE



KEY:

- | | | | | | |
|-----------|------------------------|--|----------------------------------|--------------------|--|
| BLDG. 648 | Building | Existing Permanent Shallow Monitoring Well | B004 | Soil Boring Number | |
| | Trees | GM01 | Permanent Monitoring Well Number | TW004 | Temporary Monitoring Well Number |
| | Fence | | Soil Boring | * | Particulate Air Screening Location |
| A | Asphalt-Paved Area | | Temporary Monitoring Well | DW/UW | Particulate Air Screening Location Designation (downwind/upwind) |
| U | Unpaved Area | | Sanitary Sewer Manhole | | |
| | Sanitary Sewer Manhole | | | | |

Figure 2-2 PARTICULATE AIR SCREENING, SOIL BORING, AND TEMPORARY WELL LOCATIONS — NAS PENSACOLA SITE 31

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2.8 UTILITIES SURVEY

Prior to conducting any augering, boring, or drilling, E & E located all underground cables, pipes, utilities, and other subsurface features that could potentially be damaged, create a safety hazard, or otherwise hinder fieldwork. The appropriate authorities (e.g., NAS Pensacola Public Works and Southern Bell) were contacted to identify the location of all underground utilities in the site area. In addition, E & E examined available maps and documents to determine the presence of any other potentially hazardous subsurface features on site. The locations of all underground utilities and other obstructing features were marked with surveyor flags, fluorescent paint, or by other methods, as appropriate.

2.9 DATA ANALYSIS

Information obtained from the results of the above-described physical surveys was given primary consideration in the development of placement strategies for the Phase I soil borings and temporary monitoring wells. Prior to establishing the Phase I temporary monitoring well locations or other sampling points, the results of the aerial photograph analysis, site reconnaissance, surface emissions survey and particulate air screening, radiation survey, and utilities survey were evaluated to identify potential areas of surface or subsurface contamination and areas of stressed vegetation at the site. Based on the results of this evaluation, no revisions to the proposed Phase I temporary monitoring well locations or soil sampling points, shown on Figure 14-1 of the work plan, were necessary.

2.10 SOIL BORINGS AND TEMPORARY MONITORING WELL INSTALLATION

A total of 11 soil borings were completed at Site 31 (see Figure 2-2). At each boring location, samples were collected by compositing soils over 5-foot depth intervals from land surface to the water table. Each 5-foot depth interval was assigned a letter designation as follows: A interval = surface to 5 feet below land surface (BLS); B interval = 5 to 10 feet BLS; C interval = 10 to 15 feet BLS; and so on to the water table. Samples were collected using either hand-operated bucket augers

or a solid-stem auger powered by a drill rig. Lithologic characteristics of the materials encountered in each borehole were recorded in the field logbook. All sampling, compositing, and lithologic logging activities were performed in accordance with Section 6.6 of the GQAPP. Equipment decontamination was performed in accordance with Section 6.10 of the GQAPP.

Temporary, stainless steel monitoring wells were installed in four of the 11 borings (see Figure 2-2). Each well was constructed with 5 feet of 0.01-inch slot, continuous wire-wound, stainless steel screen and installed to a depth that allowed the well screen to bracket the water table. The wells were installed using solid-stem augers powered by a drill rig. Lithologic characteristics of materials encountered during installation of the wells were recorded in the field logbook in accordance with Section 6.6 of the GQAPP. All equipment decontamination activities were performed in accordance with Section 6.10 of the GQAPP.

2.11 SOIL SAMPLING

A total of 44 soil samples, plus 2 duplicate samples, were collected as described in Section 2.10, in accordance with Section 6.6.2 of the GQAPP. All soil samples were shipped to E & E's Analytical Services Center (ASC) in Buffalo, New York, and analyzed for the screening parameters listed in Table 2-2.

2.12 GROUNDWATER SAMPLING

2.12.1 Temporary Monitoring Wells

A total of four groundwater samples, plus one duplicate sample, were collected from the four temporary monitoring wells shown on Figure 2-2. Weather conditions; water levels; purge volumes; and groundwater pH, specific conductance, and temperature measurements were recorded in the field logbook prior to sampling. In addition, prior to purging, each well was checked for the presence of floating and/or sinking immiscible hydrocarbons using a Solinst oil-water interface probe. Each groundwater sample was collected immediately following well purging. All well purging and sampling activities were performed in accordance with sections 6.8 and 6.11 of the GQAPP. Equipment decontamination was

Table 2-2

**SAMPLING AND ANALYTICAL SUMMARY
NAS PENSACOLA SITE 31**

Medium	No. of Samples	Duplicates	Total	Analytical Suite ^{a,b}
Soil	44	2	46	A
Groundwater ^d	4	1	5	A

Medium	lo. of Samples	Duplicates	Trip Blanks ^e	Field Blanks	Rinsate Blanks	Preservative Blanks ^g	Total	Analytical Suite ^{a,c}
Groundwater ^e	1	1	1	1	1	1	6	B

[NASP]UH8058:T0364/667/14

Key:

^aAnalytical suite designations are as follows:

A = Volatile organic compounds (VOCs) including chlorobenzene, polynuclear aromatic hydrocarbons (PAHs), phenols, pesticides and total polychlorinated biphenyls (PCBs), total recoverable petroleum hydrocarbons (TRPHs), and metals (total, unfiltered).

B = Target Compound List (TCL) VOCs (EPA 8240). TCL base/neutral and acid extractable organic compounds (BNAs; EPA 8270), TCL pesticides and PCBs (EPA 8080), TRPHs (EPA 418.1), Target Analyte List (TAL) metals (total [i.e., unfiltered] and dissolved [i.e., millipore-filtered]; EPA 6010/7060/7421/7471/7740/7841), cyanide (EPA 9010), total organic carbon (EPA 415.1), and alkalinity (water only: EPA 310.1).

^bSpecific constituents encompassed by the various chemical groups included within analytical suite A are identified in tables 9-1 through 9-4 of the GQAPP.

^cSpecific constituents encompassed by the various chemical groups included within analytical suite B are identified in tables 9-5 through 9-13 of the GQAPP.

^dGroundwater samples and analyses shown are for temporary wells only.

^eGroundwater sample and analyses shown are for the existing permanent well.

^fTrip blanks analyzed for TCL VOCs only.

^gPreservative blanks analyzed for total TAL metals. TCL TRPHs, cyanide, and TCL VOCs.

Source: Ecology and Environment, Inc., 1992.

performed in accordance with Section 6.10 of the GQAPP. All groundwater samples collected from the temporary monitoring wells were shipped to E & E's ASC and analyzed for the screening parameters listed in Table 2-2.

2.12.2 Existing Permanent Monitoring Well

One groundwater sample, plus one duplicate sample, were collected from the existing permanent monitoring well located on Site 31 (see Figure 2-2). The weather conditions; water level; purge volume; and groundwater pH, specific conductance, and temperature measurements were recorded in the field logbook prior to sampling. Each groundwater sample was collected immediately following well purging. All well purging and sampling activities were performed in accordance with sections 6.8 and 6.11 of the GQAPP. Equipment decontamination was performed in accordance with Section 6.10 of the GQAPP. The groundwater samples collected from the existing well were analyzed according to U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) protocol for the Target Analyte List (TAL) and the Target Compound List (TCL) and other parameters listed in Table 2-2.

2.13 HYDROLOGIC ASSESSMENT

The hydrologic assessment of the site included a wellhead elevation survey, static water level measurements, and the determination of water level elevations in both the existing permanent monitoring well and the temporary monitoring wells.

The wellhead top-of-casing (TOC) elevation and static water level measured in the existing permanent well were referenced directly to U. S. Geological Survey (USGS) established benchmark N26 at 27 feet above mean sea level (MSL). Benchmark N26 is located approximately 450 feet south of the site, near the north corner of Building 649. The static water levels in the permanent monitoring well and the temporary monitoring wells were measured on April 23, 1991 and on June 26 and 27, 1991, respectively.

Wellhead TOC elevations for the temporary monitoring wells were measured using a spirit level and a tape measure, relative to the top of a driven reference stake located adjacent to each well. Following

groundwater sampling and removal of the temporary monitoring wells, the elevations of the driven reference stakes were surveyed using an automatic level with reference to benchmark N26. These water levels were used to determine the water table elevations, groundwater flow direction, and horizontal hydraulic gradient for the shallow surficial zone of the Sand-and-Gravel Aquifer in the site vicinity.

2.14 FIELD QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

All field tasks performed during the investigation were documented in the field logbooks according to the procedures specified in Section 7.2 of the GQAPP.

2.14.1 Field QA/QC Samples

Field QA/QC samples were prepared for all samples collected at the site during the Phase I investigation according to the procedures described in Section 6.12 of the GQAPP. Chain-of-custody was maintained for all samples collected, packaged, and shipped to E & E's ASC for analysis. Sample management was performed as specified in Section 7 of the GQAPP. The field QA/QC samples and corresponding analytical parameters are listed in Table 2-2.

2.14.2 Decontamination Procedures

All equipment used during field activities was decontaminated in accordance with Section 6.10 of the GQAPP.

2.15 INVESTIGATION-DERIVED WASTE MANAGEMENT

Excess soil generated during soil boring and temporary monitoring well installation activities was temporarily contained adjacent to the well or boring and then backfilled into the borehole after the auger flights or temporary well casings had been removed following sample collection. Any soil material remaining after completion of borehole backfilling was placed in 55-gallon drums, sealed, labeled, and moved to a central area on the site. Each drum has a painted-on label listing the site number and the type of material contained in the drum.

All water generated during purging of the existing permanent monitoring well was placed in 55-gallon drums, sealed, labeled, and

moved to a central area on the site. Each drum has a painted-on label listing the site number and the type of material contained in the drum.

All water generated during development and purging of the temporary monitoring wells was temporarily contained adjacent to the well and then poured back into the well following collection of samples.

Potentially contaminated, personal protective clothing and disposable materials, wastes generated during decontamination activities, and other potentially contaminated, investigation-derived materials were placed in 55-gallon drums, sealed, labeled, and moved to a central area on the site. All drummed, investigation-derived materials were subsequently picked up and disposed of by NAS Pensacola.

3. RESULTS

3.1 **AERIAL** PHOTOGRAPH AND EXISTING DATA ANALYSIS

The review of aerial photographs dating from 1951 to 1989 indicated that site activities and physical conditions on and in the general vicinity of Site 31 have changed during this period.

The January 22, 1951, aerial photograph reveals the existence of Building 648, located south of Site 31. The site area generally lacked vegetation, but a few large trees were noted north and west of the site.

The January 3, 1958, through March 6, 1981, aerial photographs show few changes at the site. The unpaved area directly north of Building 648 was used as a parking lot during this period. Automobiles, small objects (possibly tanks or drums), and some soil discoloration were noted in the central portion of the site in the November 12, 1961; October 8, 1964; March 24, 1968; and April 6, 1970, aerial photographs. The soil discoloration and small objects identified in the previous photographs were absent on the May 7, 1973, and April 28, 1976, aerial photographs; however, a darkened area was noted in the southeast corner of the site. No significant changes were noted on the March 6, 1981, aerial photograph.

The November 21, 1986, aerial photograph indicates that the site was no longer utilized as a vehicle parking lot and that a small building was located in the northeastern portion of the site. The October 26, 1989, aerial photograph indicates that another small building was added in the central portion of the site and that the eastern and northern boundaries of the site had been fenced.

The buildings identified in the November 21, 1986, and October 26, 1989, aerial photographs had been removed prior to the site reconnaissance conducted by E & E on April 15, 1991.

3.2 SITE RECONNAISSANCE

During the site reconnaissance, visual inspections were made across the site area (see Figure 1-2). The site area is flat, sparsely vegetated, and mostly covered with shell fragments. The site is bordered to the west by an asphalt driveway, to the east by an iron and concrete fence, and to the north by an asphalt service road. Building 648 forms the southern boundary. The site is fenced except for the small area that extends beyond the northern fence and is adjacent to the service road.

No distinct surface runoff routes were observed. An area of apparently paint-stained soil was observed in the northeastern portion of the site. A sanitary sewer manhole is located in the southwestern portion of the site, approximately 15 feet north of Building 648. An underground waste oil tank is located approximately 10 feet north of Building 648, and an air conditioning unit is located approximately 40 feet west of the underground waste oil tank. Permanent monitoring well GM01 is located approximately 15 feet west of the eastern fence boundary and approximately 50 feet north of Building 648.

An HNu air monitoring device was used to monitor ambient air during the site reconnaissance. No readings above background were measured.

3.3 HABITAT/BIOTA SURVEY

The habitat/biota survey of Site 31 focused primarily on the upland forest north of the site. This forest consists of a canopy dominated by sand pine (*Pinus clausa*), laurel oak (*Quercus heaisphaerica*), and sand live oak (*Egeminata*) and an open understory maintained by periodic mowing. Birds utilizing this habitat include mockingbird, northern oriole, ruby-crowned kinglet, boat-tailed grackle, and mourning dove. Gray squirrels, rabbits, and other small mammals may use this habitat for nesting and/or foraging.

Appendix A presents a list of birds observed at NAS Pensacola during the habitat/biota survey. No apparent impacts from the disposal or migration of wastes were observed on Site 31 or in the adjacent forest.

3.4 SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SCREENING

An OVA was used in survey mode to monitor surface emissions across Site 31. Background OVA readings at Site 31 ranged from 1.2 to 2.8 parts per million (ppm) during the surface emissions survey. Appendix B contains the OVA readings for each grid coordinate, as well as any above background readings detected between coordinates. Readings across the site ranged from 0 ppm to 1.6 ppm above background. These low magnitude readings are attributable to the proximity of heavy traffic along Hurray Road, as well as activities involving the use of solvents in the nearby building complex.

On May 14, 1991, air screening for particulates was conducted at Site 31. During the test, the wind was from the west at approximately 5 miles per hour (mph). The Mini-Ram particulate air monitor was placed downwind (DW), approximately 2 feet east of the eastern site boundary and approximately 75 feet north of Building 648 (see Figure 2-2). After 15 minutes, the time weighted average (TWA) of particulates was 0.01 milligram per cubic meter (mg/m^3). The Mini-Ram was then placed directly upwind (UW) of the downwind station, approximately 50 feet west of the western boundary and approximately 50 feet north of the southern boundary. After 15 minutes, the TWA was recorded as 0.00 mg/m^3 . Based on these results, the site does not appear to be a source of particulates in the air. Appendix C presents the results of the air particulate screening conducted at Site 31.

3.5 RADIATION SURVEY

The background radiation readings during the radiation survey for Site 31 were measured near Building 1754, located approximately one mile southeast of Site 31. The background gamma radiation level using the Bicron Microanalyst was 1 $\mu\text{R}/\text{hr}$. The background gamma radiation level using the ESP-2 gamma scintillator at ground surface was 26,667 dpm. The background alpha, beta, and gamma radiation level detected using the Bicron Surveyor-M with the PGH probe was 20 cpm. Appendix D lists the readings for each grid coordinate, as well as any above background readings detected.

No readings above background were recorded using the Bicron Micro-R-meter. Gamma radiation measured at the ground surface using the

ESP-2 gamma scintillator ranged from 17,333 to 52,000 dpm. Slightly elevated radiation levels were detected at three locations with the ESP-2 gamma scintillator. These low level readings (30,667 dpm, 30,667 dpm, and 28,000 dpm) were only slightly above background and do not indicate significant radiation at Site 31. Slightly higher radiation levels of 33,333 dpa, 50,667 dpa, and 52,000 dpm were measured with the gamma scintillator on the asphalt driveway that borders the site to the west. These readings are probably attributable to the asphalt slag, which may contain rock fragments that include naturally occurring radioactive minerals. Radiation measured with the Bicron Surveyor-M ranged from 10 to 30 cpm. Slightly elevated radiation levels were detected with this instrument at six locations; however, these low level readings (25 to 30 cpm) are also only slightly above background and do not indicate significant radiation at Site 31.

36 **HYDROLOGIC ASSESSMENT**

3.6.1 **Shallow Subsurface Lithology**

Based on information collected during the completion of the 11 soil borings, the shallow subsurface lithology beneath Site 31 can be generally characterized as a yellow to brown, medium- to coarse-grained quartz sand that becomes a white, medium- to coarse-grained quartz sand near the water table. OVA readings taken in the open boreholes during drilling ranged from 0 to 8 ppm. The lithologic logs for the 11 soil borings completed at Site 31 are presented in Appendix E.

3.6.2 **Water Levels and Groundwater Flow**

Table 3-1 lists the water level elevations measured in existing permanent monitoring well GM01 and the temporary monitoring wells at Site 31. Based on the measurements taken from the temporary wells and the permanent well, the depth to the water table across the site ranges from approximately 17 to 18 feet BLS.

Figure 3-1 illustrates the water level elevations and the groundwater flow direction in the upper portion of the surficial zone of the Sand-and-Gravel Aquifer at Site 31, measured in the temporary monitoring wells. Based on groundwater elevations, the direction of groundwater flow in the upper portion of the surficial zone of the Sand-and-Gravel

Table 3-1

TEMPORARY AND PERMANENT MONITORING WELL CONSTRUCTION INFORMATION
AND WATER LEVEL ELEVATIONS
NAS PENSACOLA SITE 31

Well Number	Total Depth (BLS)	Depth to Water (BLS)	Depth to Water BTOC	TOC Elevation	Water Level Elevation	Date Measured
TW004 ^a	22.14	17.92	20.18	31.40	11.22	6/21/91
TW005	21.82	17.06	20.24	31.02	10.78	6/28/91
TW007	22.29	17.33	20.04	31.03	10.99	6/28/91
TW009	22.63	18.06	20.43	31.75	11.32	6/27/91
GM01 ^b	25.01	16.81	18.1	27.32	9.22	4/23/91

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Notes:

All depths are in feet: all elevations are in feet referenced to mean sea level (MSL); all temporary wells were constructed of 2-inch diameter stainless steel with 5 feet of 0.01-inch screen; and the permanent shallow well was constructed of 2-inch diameter PVC with 5 feet of 0.01-inch screen.

Key:

^a TW signifies a temporary monitoring well.

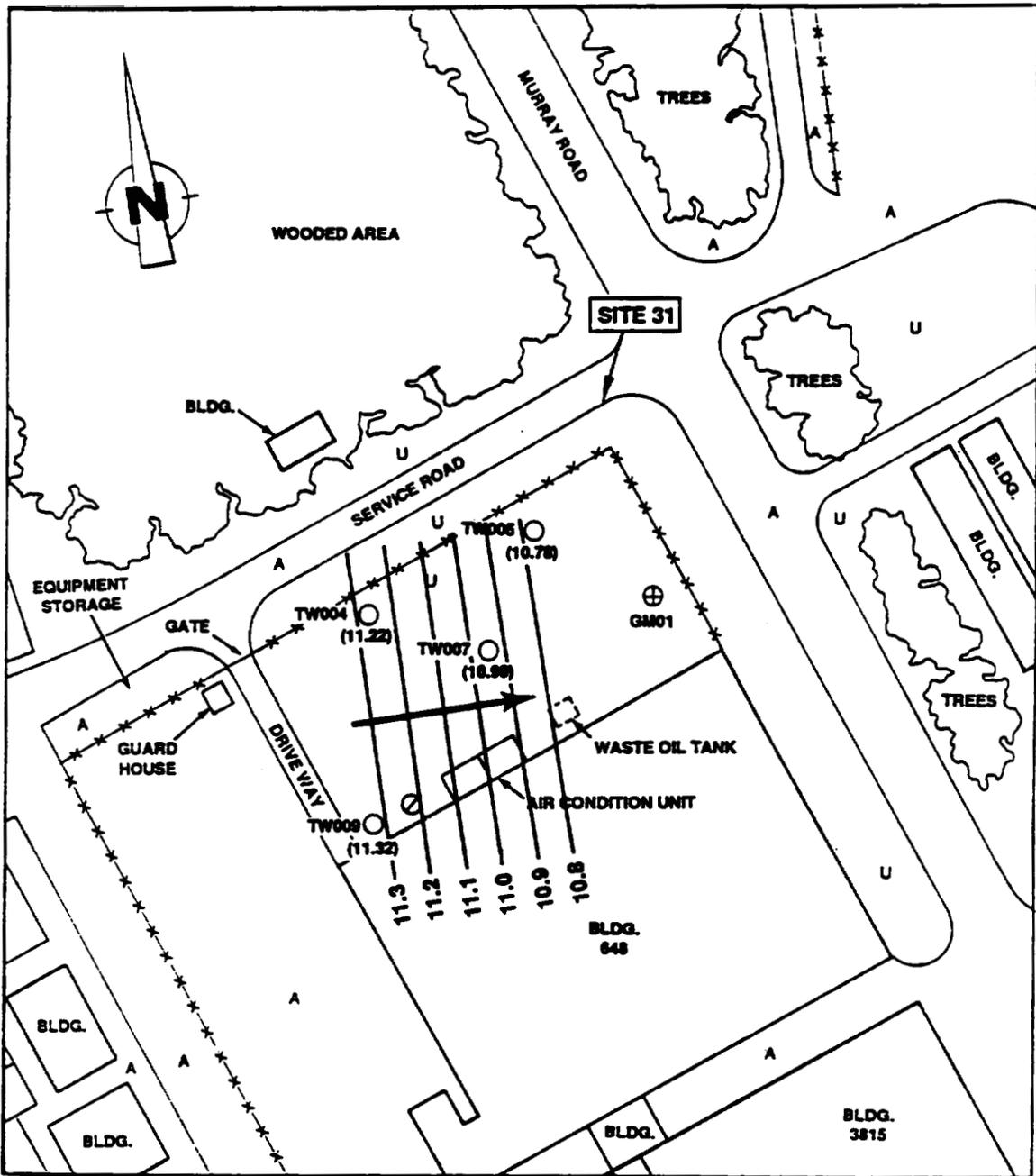
^b GM signifies a permanent monitoring well.

BLS = Below land surface.

TOC = Top of casing.

BTOC = Below top of casing.

Source: Ecology and Environment, Inc., 1992.



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1987; Ecology and Environment, Inc., 1991

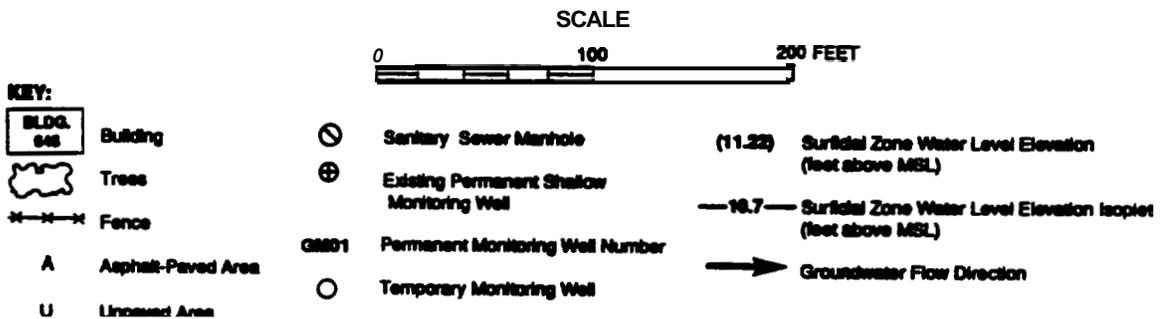


Figure 3-1 SURFICIAL ZONE WATER LEVEL ELEVATIONS FOR TEMPORARY MONITORING WELLS — NASPENSACOLA SITE 31

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Aquifer is to the east, and the horizontal hydraulic gradient is approximately 0.0054. The water level measured in permanent well GM01 was not used to determine the flow direction and the hydraulic gradient.

Although the water levels in the temporary wells at Site 31 were measured over a 2-day period, it is believed that these measurements are generally reflective of prevailing conditions in the area. This belief is based on the resultant relatively uniform hydraulic gradient and the fact that the easterly direction of shallow groundwater flow is consistent with the generally east and southeast flow directions determined at sites 25, 27, and 30, which are all within about 500 feet of Site 31. The direction of shallow groundwater flow at Site 31 appears to be controlled by discharge into the small creek and paved ditch located approximately 2,000 feet east of the site.

3.7 CHEMICAL ANALYSES

The following section presents the results of the laboratory analyses of the soil and groundwater samples. The specific analytical parameters and parameter groups are listed or referenced in Table 2-2.

3.7.1 Soil

Table 3-2 summarizes the analytical screening results for soil samples collected at Site 31 and presents the Resource Conservation and Recovery Act (RCRA) Proposed Corrective Action Levels (PCALs) for soil contamination (EPA 1990a). Figure 2-2 shows the boring locations at Site 31. The complete analytical screening results for soil samples are presented in Appendix F.

In general, one or more of the Site 31 soil samples exhibited elevated levels of metals and total recoverable petroleum hydrocarbons (TRPHs). Polynuclear aromatic hydrocarbons (PAHs) were present in two soil samples; however, the concentrations were below the stated detection limit. One sample exhibited phenols at a significant concentration. No volatile organic compounds (VOCs), pesticides, or polychlorinated biphenyls (PCBs) were detected in any of the soil samples.

Table 3-2

SUMMARY ANALYTICAL SCREENING RESULTS FOR SOIL SAMPLES
 HAS PENSACOLA SITE 31
 (All results in mg/kg, unless noted)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)								PCAL ^b
		P31S001A (B001A)	P31S001B (B001B)	P31S001C (B001C)	P31S001CD ^a (B001C)	P31S001D (B001D)	P31S002A (B002A)	P31S002B (B002B)	P31S002C (B002C)	
Chromium	1.0	1.8	—	—	1.8	—	—	—	—	4x10 ²
Zinc	2.0	3.8	—	—	6.6	—	—	—	7.8	1.6x10 ⁴
Lead	4.0	—	—	—	7.0	—	—	—	—	—
Cadmium	0.5	—	—	—	—	—	—	—	—	4x10 ¹
TRPHs	5	13	31	8.6	8.3	21	18	12	20	—
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	(L)	—	—	—	—	—	—	—	—
Phenols as Trichlorophenol (µg/kg)	2,000	2,600	—	—	—	—	—	—	—	—

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Key at end of table.

Table 3-2 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)								PCAL ^b
		P31S002D (B002D)	P31S003A (B003A)	P31S003B (B003B)	P31S003C (B003C)	P31S003D (B003D)	P31S004A (B004A)	P31S004B (B004B)	P31S004C (B004C)	
Chromium	1.0	—	—	—	—	—	1.2	—	—	4x10 ²
Zinc	2.0	—	—	—	—	7.2	4.6	—	—	1.6x10 ⁴
Lead	4.0	—	—	—	8.8	—	12	—	5.5	
Cadmium	0.5	—	—	—	—	—	—	—	5.7	4x10 ¹
TRPHs	5	32	27	19	66	16	16	17	14	
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	—	—	—	—	—	—	—	—	
Phenols as Trichlorophenol (µg/kg)	2,000	—	—	—	—	—	—	—	—	

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Table 3-2 (cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)								PCAL ^b
		P31S004D (B004D)	P31S005A (B005A)	P31S005B (B005B)	P31S005C (B005C)	P31S005D (B005D)	P31S006A (B006A)	P31S006B (B006B)	P31S006C (B006C)	
Chromium	1.0	—	—	—	—	—	1.3	—	—	4×10^2
Zinc	2.0	—	13	—	3.5	3.7	2.3	—	—	1.6×10^4
Lead	4.0	7.1	12	11	6.0	6.2	—	—	—	
Cadmium	0.5	—	—	—	—	—	—	—	—	4×10^1
TRPHs	5	10	6.1	18	—	—	—	—	—	
Total PAHs as Benzo-a-pyrene ($\mu\text{g}/\text{kg}$)	1,000	—	—	—	—	—	—	—	—	
Phenols as Trichlorophenol ($\mu\text{g}/\text{kg}$)	2,000	—	—	—	—	—	—	—	—	

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changes to last version.]

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Table 3-2 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)								PCAL ^b
		P31S006D (B006D)	P31S007A (B007A)	P31S007B (80078)	P31S007C (B007C)	P31S007D (B007D)	P31S008A (B008A)	P31S008B (80088)	P31S008C (B008C)	
Chromium	1.0	—	—	—	—	—	1.4	—	—	4x10 ²
Zinc	2.0	—	3.9	—	2.3	—	2.6	—	—	1.6x10 ⁴
Lead	4.0	—	10	11	10	—	—	—	—	
Cadmium	0.5	—	—	—	—	—	—	—	—	4x10 ¹
TRPHs	5	—	—	—	—	—	5.0	—	—	
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	—	—	—	—	—	—	—	—	
Phenols as Trichlorophenol (µg/kg)	2,000	—	—	—	—	—	—	—	—	

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Table 3-2 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)								PCAL ^b
		P31S008D (B008D)	P31S009A (B009A)	P31S009B (B009B)	P31S009C (B009C)	P31S009D (B009D)	P31S010A (B010A)	P31S010B (B010B)	P31S010C (B010C)	
Chromium	1.0	—	1.2	—	—	1.4	8.7	—	2.2	4×10^2
Zinc	2.0	—	4.0	4.5	2.2	2.1	7.5	—	—	1.6×10
Lead	4.0	—	7.3	1.1	6.2	—	5.8	—	—	
Cadmium	0.5	—	—	—	—	—	—	—	—	4×10^1
TRPHs	5	—	—	—	—	—	23	—	9.0	
Total PAHs as Benzo-a-pyrene ($\mu\text{g}/\text{kg}$)	1,000	—	(L)	—	—	—	—	—	—	
Phenols as Trichlorophenol ($\mu\text{g}/\text{kg}$)	2,000	—	—	—	—	—	—	—	—	

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Key at end of table.

Table 3-2 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)						PCAL ^b
		P31S010C ^c (B010C)	P31S010D (B010D)	P31S011A (B011A)	P31S011B (B011B)	P31S011C (B011C)	P31S011D (B011D)	
Chromium	1.0	1.6	5.2	—	—	—	2.4	4x10 ²
Zinc	2.0	—	—	2.4	—	—	—	1.6x10
Lead	4.0	—	—	—	—	—	—	—
Cadmium	0.5	—	—	—	—	—	—	4x10 ¹
TRPHs	5	—	92	22	38	94	13	—
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	—	—	—	—	—	—	—
Phenols as Trichlorophenol (µg/kg)	2,000	—	—	—	—	—	—	—

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Key:

PCAL = RCRA Proposed Corrective Action Level.

^a Duplicate of sample P31S001C.

^b RCRA PCAL for chromium is for chromium (VI).

^c Duplicate of sample P31S010C.

Dash (—) indicates compound not detected.

Qualifier:

(L) = Present below stated detection limit.

Source: Ecology and Environment, Inc., 1992.

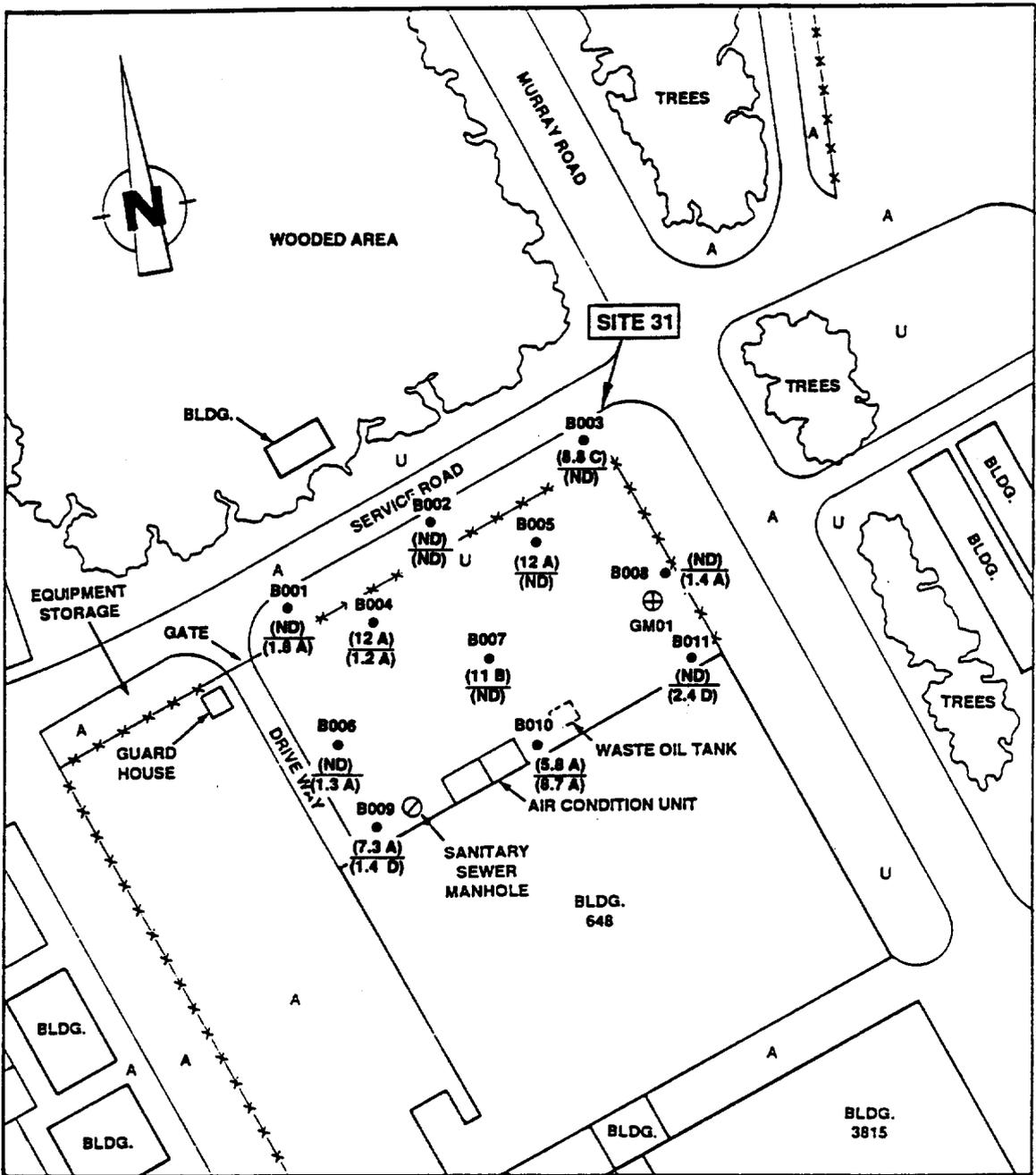
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Metals

Zinc, lead, chromium, and cadmium were detected in soil samples collected from the soil borings at Site 31. In general, the levels of metals detected in the soil samples were low. Zinc was the most commonly detected metal. The highest concentration of zinc (13 milligrams per kilogram [mg/kg]) was detected in sample S005A, collected from boring B005. This concentration is far below the RCRA PCAL of 16,000 mg/kg for zinc. Lead was the next most commonly detected metal and was generally found at the highest concentrations in the A-interval samples. Samples collected from borings B004, B005, and B007, located in the north-central portion of the site, exhibited the highest concentrations of lead. Lesser amounts of lead were detected in samples collected from borings B003, B009, and B010. No RCRA PCAL has been established for lead. Chromium was detected in samples from seven borings, at a maximum concentration of 8.7 mg/kg in sample S010A, far below the RCRA PCAL of 400 mg/kg for hexavalent chromium. Cadmium was detected only in sample S004C at a concentration of 5.7 mg/kg, far below the RCRA PCAL of 40 mg/kg for cadmium. Figure 3-2 presents the highest concentrations of lead and chromium in each boring over the site.

TRPHs

TRPHs were detected in samples collected from eight of the 11 soil borings completed at Site 31. In general, the levels of TRPHs detected in the soil samples were low. The detected concentrations ranged from 5 mg/kg (S008A) to 94 mg/kg (S011C). As indicated on Table 3-2, borings B001, 8002, B003, B004, and B011 exhibited TRPH concentrations in all the sample intervals. Samples collected from borings B005, 8008, and B010 also exhibited TRPH concentrations but not in all sample intervals. Samples collected from B006, B007, and B009 did not contain detectable levels of TRPHs. In general, the highest concentrations appear to be present in the samples from the B, C, and D intervals. Additionally, the highest TRPH concentrations tended to occur in samples collected from borings located along the southern and southeastern perimeters of the site, directly north of Building 648. TRPHs were also detected in samples collected from borings located along the northern and northeastern perimeters, adjacent to Murray Road and the service road.



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1987; Ecology and Environment, Inc., 1991

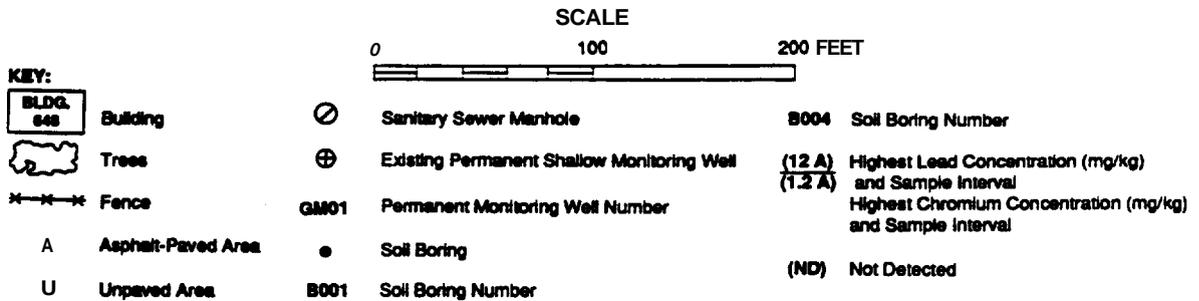


Figure 3-2 LEAD AND CHROMIUM CONCENTRATIONS DETECTED IN SOIL SAMPLES — NAS PENSACOLA SITE 31

Figure 3-3 presents the distribution of the highest **TRPH** concentration detected in each boring at Site 31. From the areal distribution pattern presented in Figure 3-3, **TRPE** concentrations seem to be associated with past activities in the southern and southeastern portions of the site and the roads adjacent to the site.

PAHs

PAHs were detected in samples collected from only two soil borings at Site 31. Both concentrations were below the stated detection limit of 1,000 micrograms per kilogram ($\mu\text{g}/\text{kg}$), and both were detected in the A-interval samples. Figure 3-3 presents the locations of the **PAH** concentrations detected in samples collected on Site 31.

It should be noted that **PAHs** were reported as benzo-a-pyrene for laboratory reporting purposes; however, **PAHs** other than benzo-a-pyrene may be present in the samples.

Phenols

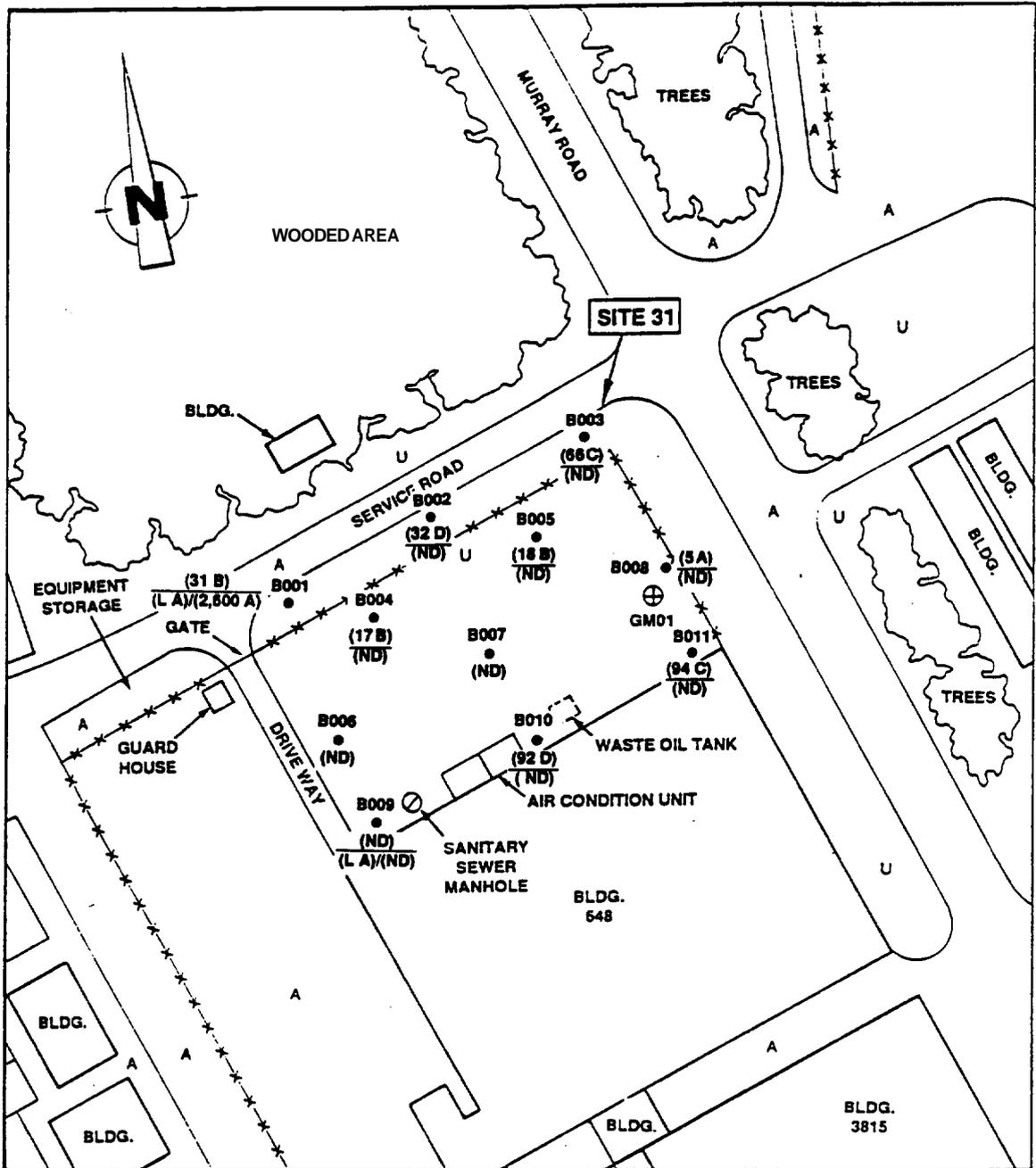
Phenols were detected in only one sample at Site 31. Sample S001A, collected from B001, exhibited a concentration of phenols at 2,600 $\mu\text{g}/\text{kg}$ (see Table 3-2 and Figure 3-3). Due to the isolated location and relatively low concentration of phenols detected, the occurrence appears to be of minor significance at Site 31.

It should be noted that phenols were reported as trichlorophenol for laboratory reporting purposes; however, phenols other than trichlorophenol may be present in the samples.

3.7.2 Groundwater

3.7.2.1 Field Parameters

Table 3-3 lists the groundwater temperature, pH, and specific conductance values measured in the groundwater samples collected from the four temporary monitoring wells (June 27 and 28, 1991) and the existing permanent monitoring well (April 23, 1991). The field parameter measurements for these wells are within the reported range of values for ambient groundwater in Escambia County (Clemens et al. 1989). The pH values observed at the site ranged from 6.8 to 7.4 units. No floating or sinking immiscible hydrocarbons were detected in any of the



SOURCE: U.S. Naval Air Station, Pensacola, Florida, 1987; Ecology and Environment, Inc., 1991

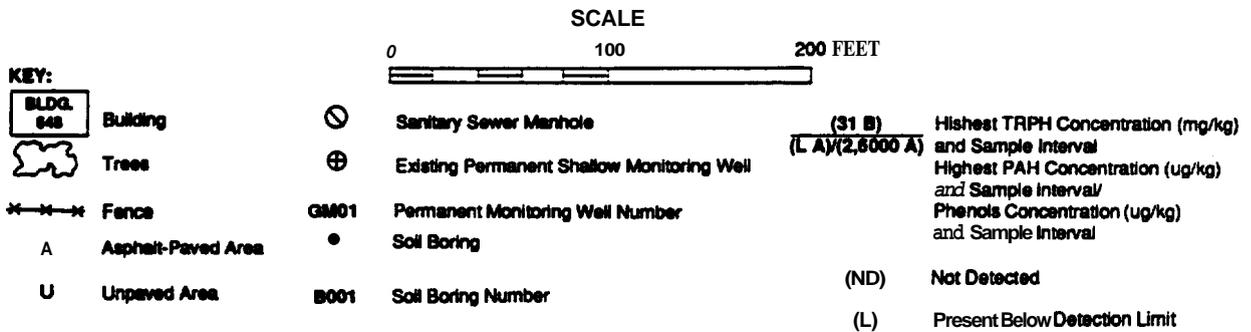


Figure 3-3 TRPH, PAH, AND PHENOL CONCENTRATIONS DETECTED IN SOIL SAMPLES — NAS PENSACOLA SITE 31

Table 3-3
GROUNDWATER FIELD PARAMETERS
HAS FERRACOLA SITE 31

Well Number	Temperature (°C)	pH (units)	Specific Conductance (µmhos/cm)	Date Measured
TW004	--	6.9	200	6/27/91
TW005	24	7.4	220	6/28/91
TW007	23	7.0	195	6/28/91
TW009	24	6.8	200	6/27/91
GM01	22	1.4	120	4/23/91

14[NASP]UH0058:T0364/654/24

Key:

Dash (--) indicates measurement not taken.

Source: Ecology and Environment, Inc., 1992.

wells. Appendix E presents the temporary monitoring well information, including field parameters and groundwater elevation data.

3.7.2.2 Analytical Screening Parameters

Table 3-4 summarizes the analytical screening results for the groundwater samples collected from the four temporary wells installed on Site 31. Figure 2-2 shows the temporary monitoring well locations at Site 31. The complete analytical screening results for the groundwater samples are presented in Appendix G.

Groundwater samples collected from the Site 31 temporary monitoring wells exhibited low levels of a few metals only. TRPHs, VOCs, PAHs, phenols, pesticides, and PCBs were not detected in any of the groundwater samples.

Metals

Chromium, cadmium, copper, and zinc were detected in one or more of the temporary monitoring well groundwater samples, excluding GW004 (see Table 3-4). As shown on Table 3-4, the detected concentrations of all the metals are below the applicable Florida Primary Drinking Water Standards (FPDWSs) or Florida Secondary Drinking Water Standards (FSDWs). However, the detected concentration of chromium (42 µg/L) in sample GW005 is only slightly below the FPDWS. In general, the highest concentrations of metals were detected in the samples from the two easternmost temporary monitoring wells (TU005 and TW007). As discussed below, comparable levels of these same metals were detected in the sample collected from permanent well GM01. Figure 3-4 presents the distribution of chromium and cadmium concentrations detected in the samples from the monitoring wells at Site 31.

3.7.2.3 TAL/TCL Parameters

Table 3-5 summarizes the analytical results for groundwater sample W001, collected from the existing permanent monitoring well (GM01). The sample was analyzed for the TAL/TCL parameter groups, TRPHs, total alkalinity, and total organic carbon. Figure 3-4 shows the existing

Table 3-4

**SUMMARY ANALYTICAL SCREENING RESULTS FOR GROUNDWATER SAMPLES
(FROM TEMPORARY MONITORING WELLS)
NAS PENSACOLA SITE 31
(All results in µg/L)**

Parameter	Detection Limit	Sample Number (Well Number)					FPDWS/ FSDWS
		P31GW004 (TW004)	P31GW005 (TW005)	P31GW007 (TW007)	P31GW007D ^a (TW007D)	P31GW009 (TW009)	
Chromium	10.0	--	42	32	33	14	50
Zinc	20.0	--	29	88	88	55	5,000
Cadmium	5.0	--	--	5.0	--	--	10
Copper	25.0	--	28	--	--	--	1,000

14[NASP]UR8058:T0364/655/7

Key:

FPDWS = Florida Primary Drinking Water Standard.
FSDWS = Florida Secondary Drinking Water Standard.
^aDuplicate of sample P31GW007.

Dash (--) indicator compound not detected.

Source: Ecology and Environment, Inc., 1992.

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3-22

Table 3-5

SUMMARY TAL/TCL ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES AND GROUNDWATER FIELD QA/QC SAMPLES
(FROM PERMANENT MONITORING WELLS)
NAS PENSACOLA SITE 31
(All results in $\mu\text{g/L}$, unless noted)

Parameter	Detection Limit	Sample Number (Well Number/Type)						
		P31W001 (GM01)	P31W001D ^a (GM01)	P31WFB01 ^b (Bottle Trip Blank)	P31WFB01 (Field Blank)	P31WRB01 ^c (Sampling Equipment Rinse)	P31WPB01 (Preservative ^d Blank)	FPDMS/PSDMS
Total Metals								
Aluminum	14.0	11,100	11,400	NA	22(B)	29.4(B)	33.6(B)	
Barium	5.0	42(B)	44.1(B)	NA	—	—	—	
Beryllium	1.0	—	1.1(B)	NA	—	—	—	1,000
Cadmium	3.0	5.6	—	NA	—	—	—	10
Calcium	3.0	26,200	44,900	NA	—	102(B)	101(B)	
Chromium	9.0	29.1	23.7	NA	—	—	—	50
Cobalt	5.0	10.5(B)	15.7(B)	NA	6.2(B)	—	9.6(B)	
Copper	2.0	7.5(B)	9.1(B)	NA	—	—	—	1,000
Iron	5.0	13,000	13,200	NA	26.1(B)	46(B)	30.6(B)	300
Lead	1.0	11.9(B)*	11.2(B)	NA	1.7(B)	—	—	50
Magnesium	108.0	4,720(D)	6,260	NA	—	—	—	
Manganese	1.0	747	612	NA	1.1(B)	1.3(B)	1.6(B)	50
Mercury	0.2	0.30	0.20	NA	—	—	—	2
Nickel	8.0	10.5(B)	10.3(B)	NA	—	—	—	
Potassium	263.0	1,320(B)	1,270(B)	NA	521(B)	401(B)	—	
Sodium	74.0	30,500	31,700	NA	22,500	298(B)	188(B)	160,000
Vanadium	4.0	12.5(B)	17.9(B)	NA	—	4.0(B)	5.7(B)	
zinc	3.0	72.3	91.8	NA	—	9.1(B)	3.6(B)	5,000
Dissolved Metals								
Aluminum	14.0	183(B)	216	NA	21.6(B)	35.6(B)	NA	
Calcium	3.0	10,400	10,100	NA	—	—	NA	
Cobalt	5.0	6.5(B)	9.7(B)	NA	8.7(B)	9.3(B)	NA	
Copper	2.0	13.3(B)	3.0(B)	NA	2.2(B)	4.7(B)	NA	1,000
Iron	5.0	93.2(B)	122	NA	35.5(B)	78.1(B)	NA	300
Lead	1.0	—	—	NA	5	2.7(B)	NA	50
Magnesium	108.0	1,360(B)	1,360(B)	NA	—	—	NA	
Manganese	1.0	2.0(B)	4.2(B)	NA	2.4(B)	2.8(B)	NA	50
Potassium	263.0	2,080(B)	933(B)	NA	—	—	NA	
sodium	74.0	34,900	31,700	NA	321(B)	517(B)	NA	160,000
Vanadium	4.0	6.3(B)	6.3(B)	NA	5.4(B)	6.8(B)	NA	
Zinc	3.0	19.6(B)	6.9(B)	NA	3.5(B)	7.2(B)	NA	5,000

Key at end of table.

14[NASP]UR8058:T0364/659/2

Table 3-5 (Cont.)

Parameter	Detection Limit	Sample Number (Well Number/Type)						FPDMS/ FSDMS
		P31W001 (GM01)	P31W001D ^a (GM01)	P31WFB01 ^b (Bottle Trip Blank)	P31WFB01 (Field Blank)	P31WRB01 ^c (Sampling Equipment Rinsate)	P31WFB01 (Preservative ^d Blank)	
Methylene Chloride	5.0	9(B ^a)	8(B ^a)	—	9(B ^a)	9(B ^a)	8(B ^a)	
Acetone	10.0	5(B ^a ,J)	4(B ^a ,J)	—	4.0(B ^a ,J)	10(B ^a)	—	
Carbon Disulfide	5.0	6	—	—	—	—	5.0	
Chloroform	5.0	13	12	—	—	—	—	100
Bis(2-Ethylhexyl)Phthalate	10.0	6(B ^a ,J)	7(B ^a ,J)	NA	8(B ^a ,J)	7(B ^a ,J)	NA	
Tentatively Identified Compounds*								
Hexane		—	—	—	6.0(J)	7(J)	7(J)	
Unknown Compound		(8)285(J)	(10)306(J)	—	(1)7(J)	(1)8(J)	(2)31(J)	
Unknown Compound		(2)110(B ^a ,J)	(2)92(B ^a ,J)	—	(2)119(B ^a ,J)	(2)81(B ^a ,J)	—	
Unknown Hydrocarbon		(9)95(J)	(5)26(J)	—	(3)135(J)+	(2)118(J)	(1)5(J)	
Unknown Hydrocarbon		(3)90(B ^a ,J)	(1)160(B ^a ,J)	—	—	—	—	
Unknown Acid		(1)15(J)	—	—	—	—	—	
Total Alkalinity (mg/L as CaCO ₃)	1.0	170	180	—	3.2	—	—	
Total Organic Carbon (mg/L)	1.0	7.8	8.4	NA	1.8	—	NA	

14[NASP]UH8058:T0364/659/2

Key at end of table.

Table 3-5 (Cont.)

Note: The number within parentheses preceding the listed concentration value represents the number of tentatively identified compounds (TICs) in this parameter group. The listed concentration represents the sum of the individual group-member concentration.

Key:

FPDWS = Florida Primary Drinking Water Standard.

FSDWS = Florida Secondary Drinking Water Standard.

NA = Analyses not performed.

Dash (—) indicates compound not detected.

+Correlation coefficient for the MSA is less than 0.995.

^aDuplicate of sample P31W001.

^bAnalyzed for VOCs only.

^cAnalyzed for total metals, dissolved metals, cyanide, VOCs, BNAs, pesticides, PCBs, TRPHs only.

^dAnalyzed for total metals, cyanide, VOCs, and TRPHs only.

^eDetection limit increased by a factor of 5 for this parameter in this sample.

Qualifiers:

(B) = Reported value was obtained from a reading that was less than the Contract Required Detection Limit but greater than or equal to the Instrument Detection Limit.

(B^a) = Present in method blank.

(J) = For non-TICs, estimated value; compound present but below detection limit. Also indicates that TIC concentrations are estimated because no detection limits were established for TICs.

*Values for TICs are estimated. No detection limits were established for TICs.

Source: Ecology and Environment, Inc., 1992.

permanent monitoring well location at Site 31. The complete TAL/TCL analytical results for the groundwater sample are presented in Appendix H.

In general, metals were the primary analytes detected. In addition, low levels of several VOCs, one base-neutral and acid extractable organic compound (BNA), and several tentatively identified compounds (TICs) were also detected. No TRPHs, cyanide, pesticides, or PCBs were detected.

Metals

As shown in Table 3-5, a variety of metals were detected in the total (unfiltered) metals analysis; however, only two metals, manganese and iron, were detected at concentrations that exceed the applicable drinking water standards. Manganese was detected at 747 micrograms per liter ($\mu\text{g/L}$) and 612 $\mu\text{g/L}$ in W001 and duplicate sample W001D, respectively. These concentrations are above the FSDWS of 50 $\mu\text{g/L}$. Iron was detected at 13,000 $\mu\text{g/L}$ (W001) and 13,200 $\mu\text{g/L}$ (W001D). These concentrations are significantly above the FSDWS of 300 $\mu\text{g/L}$. Iron and manganese were not analyzed for in the screening parameters suite. All of the other metals detected were present below the applicable drinking water standards.

Of the remaining total metals detected in the permanent well sample, chromium, zinc, cadmium, and copper were also detected in the temporary wells. The concentrations of chromium (29.1 $\mu\text{g/L}$), zinc (72.3 $\mu\text{g/L}$), cadmium (5.6 $\mu\text{g/L}$), and copper (7.5 $\mu\text{g/L}$) detected in permanent well sample W001 are generally similar to those detected in the temporary well samples on Site 31.

No dissolved (filtered) metals concentrations exceed applicable Florida drinking water standards. Copper and zinc were the only two metals detected in the dissolved metals sample that were also present in the temporary well samples.

As shown on Table 3-5, comparison of the total metals and dissolved metals results reveals that a greater variety and generally higher concentrations of total metals were detected, with the exception of copper and sodium. The probability that total metals concentrations are

being impacted by acid preservative leaching/dissolution of aquifer matrix sediments entrained in the groundwater samples is supported by the greater variety and higher concentrations of metals detected in the unfiltered samples (see Section 3.8.2).

VOCs

Chloroform, methylene chloride, acetone, and carbon disulfide were detected at low levels in permanent well groundwater sample W001 (see Table 3-5). Chloroform was detected at a concentration of 13 $\mu\text{g/L}$, far below the FPDWS of 100 $\mu\text{g/L}$ for chloroform. The Verification Study conducted by Geraghty and Hiller (G & H) in 1984 also reported chloroform in this well at a concentration of 4.6 $\mu\text{g/L}$. Methylene chloride and acetone were also detected at low levels in many of the field blanks, as well as at similar levels in the associated method blanks; therefore, the presence of these compounds can be attributed to laboratory-derived contamination. Carbon disulfide was also detected in the associated method blanks and is commonly an artifact of laboratory procedures. Thus, the low concentration of carbon disulfide detected can also be attributed to laboratory-derived contamination.

BNAs

The only BNA detected in the sample collected from the permanent monitoring well was a low concentration of bis(2-ethylhexyl)phthalate (see Table 3-5). Given that this compound was detected at low levels in many of the field blanks, as well as in the associated laboratory method blank at a similar concentration, the presence of this compound in the groundwater sample can be attributed to laboratory-derived contamination.

TICS

Several volatile and extractable TICs were detected in permanent well sample W001 and duplicate sample W001D. Two of these TICs, an unknown compound and an unknown hydrocarbon, were also detected at similar levels in the associated field and laboratory method blanks; therefore, the presence of these TICs can be attributed to laboratory-derived contamination. Two other TICs were also detected in

W001 and W001D. An unknown compound was detected in both W001 and W001D, but it was detected at a much lower concentration and variety in the blanks. Another unknown hydrocarbon was detected in W001 and W001D, but it was not detected in the field and method blanks. These TICs are, therefore, not attributable to laboratory-derived contamination. The other TIC, an unknown acid, was detected at a sufficiently low concentration to warrant little concern.

Remediation Parameters

The permanent well groundwater sample was also analyzed for total alkalinity and total organic carbon to support subsequent groundwater remedial planning activities at Site 31, if required. The sample was mistakenly not analyzed for hardness as originally intended. For comparative purposes, regional (i.e., within southern Escambia County) values of these same parameters in the Sand-and-Gravel Aquifer are as follows: alkalinity (as mg/L of CaCO₃) values range from <1.00 mg/L to 129.97 mg/L and total organic carbon values range from 2.88 mg/L to 24.41 mg/L (Clemens et al. 1989). The total alkalinity values measured in the Site 31 groundwater samples are higher than the range reported for Escambia County. The cause of the elevated values is most likely attributable to leaching of calcium carbonate from the crushed shells that cover the site. The total organic carbon values measured in the Site 31 groundwater samples are well within the reported range of regional values. Table 3-5 presents the analytical results for these remediation parameters.

38 CONTAMINATION DISTRIBUTION/SOURCE DISCUSSION

The two media, soil and groundwater, sampled on Site 31 exhibit at least trace levels of contaminants from one or more of the analytical groups metals, TRPHs, VOCs, PAHs, and phenols, included in the Phase I investigation. Overall, however, significant levels of soil and groundwater contamination are absent on Site 31. Some of the detected contamination appears to be associated with former activities on Site 31, including the on-site disposal of waste paint and paint sludges. In the following sections, each of the sampled media will be discussed

separately regarding the nature, distribution, and possible sources of contamination.

381 Soil

In general, one or more of the Site 31 soil samples exhibited detectable levels of metals and TRPHs. Total PAHs were identified in two soil samples; however, the Concentrations were present below the stated detection limit. Only one sample exhibited a detectable concentration of phenols. VOCs, pesticides, and PCBs were not detected in any of the soil samples. Overall, significant levels of soil contamination were not detected on Site 31.

Metals were detected in samples from all borings at one or more depth intervals. The highest metals concentrations were generally detected in the A-interval samples collected throughout the site area. The concentrations of metals detected in the soils were generally low and do not exceed the RCRA PCALs. Zinc, lead, and chromium were the most frequently detected metals. Zinc was detected in at least one depth interval sample from each of the soil borings. The zinc detections were randomly distributed throughout the sample intervals. The source of the zinc may be the zinc chromate paint or paint sludges, but the exact chemical composition of the wastes allegedly disposed of on site has not been documented. The random distribution of zinc indicates no particular source area for zinc on the site. The highest lead concentrations were detected in soil samples collected in the north-central portion of the site (B004, B005, and B007). Because these borings are located in the general area of the soil discoloration noted on the 1961 through 1970 aerial photographs and also in the area of paint-stained soil observed during the site reconnaissance, it is possible that the source of lead is the on-site disposal of waste paint and paint sludge. However, the detected lead may also be due to the previous use of the site as a parking lot and the presence of vehicles with lead-bearing materials (e.g., leaded gasoline, tire weights, and batteries). No RCRA PCAL has been established for lead; however, the levels of lead detected in the soils are considered to be low and of little concern. The highest chromium concentrations were detected in soil samples from borings located adjacent to Building 648 (B010 and

Boll) and may be related to the discharge of waste paint and paint sludges on the site.

TRPHs were detected in samples from eight of the 11 soil borings. In general, the concentrations of TRPHs detected were low. The higher TRPH concentrations tended to occur in the deeper intervals sampled. Sample S011C collected from B011, exhibited the highest TRPE concentration. The next highest concentration was detected in sample S010D, collected from boring B010. Because the highest TRPH concentrations occurred in samples from borings B010 and B011, located adjacent to Building 648, this TRPH contamination is probably related to the underground waste oil storage tank observed in this area during the site reconnaissance. Samples collected from borings B001, B002, B003, and B005, located adjacent to the service road and Hurray Road, also exhibited TRPH concentrations. These concentrations are highest closer to the roads and decrease toward the center of the site. The distribution pattern of these detections suggests that an ambient source, such as the adjacent roads and the associated vehicular traffic, may be responsible for this contamination. Also, the site's historic use as a parking area might have contributed to the TRPH contamination. TRPHs were not detected in samples collected from borings located in the central portion of the site or adjacent to the driveway.

PAHs and phenols were detected at relatively low concentrations in samples from two borings at Site 31. Both contaminant groups were detected in the A-interval sample from boring B001, located along the northern site boundary. Only PAHs were detected in the A-interval sample collected from boring B009, located in the southern portion of the site. No clear source of the PAHs and phenols is known; however, the presence of these compounds could be due, in part, to the previous use of this site as a parking lot and the leakage of motor fuels, oils, and lubricants from the parked vehicles..

3.8.2 Groundwater

In general, one or more of the Site 31 groundwater samples contained detectable concentrations of metals, VOCs, BNAs, and several TICs. Overall, however, significant levels of groundwater contamination were not detected on Site 31.

The only analytes detected in the groundwater samples collected from the temporary monitoring wells were metals. None of the metals concentrations detected in samples from the temporary wells exceed Florida standards; however, the concentration of chromium in the sample from well TW005 is only slightly below the FPDVS. The highest concentrations of metals were detected in the samples from the two easternmost temporary wells (TW005 and TW007) in the general area where paint-stained soil was observed; however, it should be noted that the distribution of metals in the groundwater samples does not correlate well with the distribution of metals in the soils. Given that the shallow groundwater flow direction is to the east, this distribution in the temporary wells suggests that higher metals concentrations may occur further downgradient. However, the results of the Phase I investigation of Site 27 (Radium Dial Shop), located approximately 600 feet east-southeast of Site 31, indicate that the groundwater at Site 27 does not contain significant levels of these metals.

The levels of total metals detected in the sample collected from permanent monitoring well GM01 are generally comparable to those in temporary wells TW005 and TW007. The concentrations of iron and manganese in the total metals analysis exceed the FSDWSs. Given that these metals were not included in the analytical screening suite used for the temporary wells, similar levels of iron and manganese may be present in the groundwater elsewhere across the entire site. None of the metals concentration detected in the dissolved (filtered) sample exceed drinking water standards. In general, a greater variety and higher Concentrations of metals were detected in the unfiltered sample; therefore, to some extent, the levels of total metals detected probably reflect the leaching of metals from aquifer matrix sediments by acid preservation of the unfiltered sample.

Given the low levels of metals detected in the groundwater samples, the lack of any direct correlation between the distribution of metals in the groundwater samples and the distribution of metals in the soil samples, and the lack of any specific source area for metals in the soils, it is not possible to determine if the metals in the groundwater samples are related to previous site activities.

The only organic compounds detected in the groundwater sample from permanent monitoring well GM01 were low levels of chloroform, methylene chloride, acetone, carbon disulfide, and bis(2-ethylhexyl)phthalate. However, with the exception of chloroform, the presence of these compounds is attributable to laboratory-derived contamination. The detected chloroform concentration is far below the FPDWS. Chloroform was not included in the analytical suite for the temporary monitoring wells; thus, it is possible that this compound is present in the groundwater elsewhere across the site. In 1984, chloroform was also detected at similar levels in a groundwater sample collected from Site 31 well GM01 and in a sample from well GM02 located on Site 27 (G & M 1984); however, in 1986, the samples collected from both these wells did not contain chloroform. Furthermore, the 1991 sample collected from well GM02 on Site 27 did not contain chloroform. Therefore, the current downgradient extent of possible chloroform appears to be limited. The 1984 and 1986 samples from well GM01 also contained trace levels of several other VOCs which were not detected as part of the current investigation at Site 31.

Given that chloroform is a breakdown product of solvents such as those that might have been disposed of on Site 31, the presence of this compound in the groundwater may be attributable to previous site activities.

39 QA/QC

3.9.1 Field QA/QC

Analytical Screening Samples

Two soil field duplicate samples and one groundwater field duplicate sample were collected for the Site 31 screening samples. The analytical results for the duplicate samples are presented in the summary analytical screening results tables for soil and groundwater (see tables 3-2 and 3-4). The results for the soil duplicate samples (S001CD and S010CD) and groundwater duplicate sample (GW007D) were in agreement, within acceptable limits, with the results for the original samples.

TAL/TCL Samples

One field duplicate sample, one bottle trip blank, one field blank, one sampling equipment rinsate blank, and one preservative blank were collected for the Site 31 existing permanent monitoring well TAL/TCL groundwater sample. The analytical results for these QA/QC samples are presented in Table 3-5.

The results for the groundwater duplicate sample W001D were in agreement, within acceptable limits, with the original sample except for the calcium total metals value and the copper, potassium, and zinc dissolved metals values. Methylene chloride, acetone, carbon disulfide, **bis(2-ethylhexyl)phthalate**, hexane, and two groups of TICs were detected in one or more of the field and method blanks. Aluminum, calcium, cobalt, copper, iron, lead, manganese, potassium, sodium, vanadium, and zinc were detected in one or more of the blanks. No parameters analyzed for were detected in the trip blanks. The contaminants detected in the various blanks are of little concern because they also occurred in the associated laboratory method blanks and can therefore be attributed to laboratory-derived contamination. Generally, the detected levels of contaminants were low and do not significantly impact interpretation of the field sample analytical results.

3.9.2 Laboratory QA/QC

Analytical Screening Samples

No laboratory-derived contamination or other QA/QC problems were noted with respect to the analytical screening samples.

TAL/TCL Samples

Methylene chloride, acetone, bis(2-ethylhexyl)phthalate, hexane, and several TICs were detected both in one or more of the TAL/TCL groundwater samples and in the associated laboratory method blanks; therefore, the presence of these compounds is attributable to laboratory-derived contamination.

4. CONCLUSIONS

Overall, significant levels of soil and groundwater contamination are not present on Site 31. However, limited soil and groundwater contamination are present on Site 31. With the exception of manganese and iron detected slightly above the FSDWSs in the groundwater sample from permanent monitoring well GM01, no other compounds or analytes were detected above applicable regulatory limits. The primary detected contaminants were metals, TRPHs, VOCs, PAHs, and phenols, all at low concentrations. It is not clear whether any of the detected contaminants are associated with past site activities.

Although soil samples collected at Site 31 display relatively low levels of metals contamination, the presence of lead, detected in samples collected from borings located in the north-central portion of the site, and chromium, detected in samples collected from borings located directly north of Building 648, may be attributable to areas of waste paint, solvent, and paint sludge disposal. The distribution of low-level TRPH concentrations suggests that an on-site waste oil underground storage tank, the previous usage of the site as a parking lot, and/or an ambient source such as the adjacent roads, may be responsible. Although PAHs and phenols were detected at only slightly elevated concentrations, the occurrence of these compounds could also be due in part to the parking lot that was historically located on the site and the leakage of fuels, oils or lubricants from parked vehicles.

Manganese and iron were the only metals detected in groundwater samples above the FSDWSs. However, it is not certain whether these detections represent actual contamination or are the result of acid preservation of unfiltered samples. Chromium was detected at a concentration only slightly below the FSDWS. The metals detected in groundwater samples tended to occur in the wells on the east

(downgradient) side of the site and may be indicative of contamination from past disposal practices of paint wastes containing these metals. Chloroform was detected at relatively low concentrations in the permanent monitoring well as part of this study and also in G & M's 1984 Verification Study. The presence of chloroform and the historical disposal of solvents at the site suggest a possible attribution to the site. However, this compound was not detected in the groundwater samples collected on Site 27, which is located approximately 600 feet hydraulically downgradient of Site 31. The remaining detected organic compounds (methylene chloride, acetone, carbon disulfide, and bis(2-ethylhexyl)phthalate) are common laboratory artifacts and do not appear to be associated with past or present site activities.

Limited additional assessment activities are required at Site 31.

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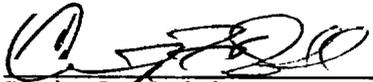
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6. FLORIDA PROFESSIONAL GEOLOGIST SEAL

I hereby affix my seal to the Interim Data Report for Soil North of Building **648** (Site **31**), located at the Naval Air Station in Pensacola, Escambia County, Florida, in accordance with Chapter **492** of the Florida Statutes and applicable rules and regulations developed pursuant thereto:

Name : Craig R. Smith
License Number: P.G. No. **1089**
State: Florida
Expiration Date: July 31, **1994**



Craig R. Smith
Craig R. Smith

11/19/92
Date

—
A

APPENDIX A
BIRDS OBSERVED DURING
HABITAT/BIOTA SURVEY

Table A-1

BIRDS OBSERVED DURING HABITAT/BIOTA SURVEY
OCTOBER 1990

Mature pine forest, including grassy margins along dirt roads and thickets bordering forests.

Cardinal	<u>Cardinalis cardinalis</u>
Bluejay	<u>Cyanocitta cristata</u>
Gray Catbird	<u>Dumetella carolinensis</u>
Northern Mockingbird	<u>Mimus polyglottos</u>
Rufous-sided Towhee	<u>Pipilo erythrophthalmus</u>
Boat-tailed Grackle	<u>Quiscalus major</u>
Common Grackle	<u>Quiscalus quiscula</u>
Eastern Phoebe	<u>Sayornis phoebe</u>
Carolina Wren	<u>Thryothorus ludovicianus</u>
Brown Thrasher	<u>Toxostoma rufum</u>
House Wren	<u>Troglodytes aedon</u>
Yellow-throated Vireo	<u>Vireo flavifrons</u>
White-eyed Vireo	<u>Vireo griseus</u>
Mourning Dove	<u>Zenaida macroura</u>

Upland mature **hardwood** forest with ~~some~~ mix of pines.

Red-tailed Hawk	<u>Buteo jamaicensis</u>
Bluejay	<u>Cyanocitta cristata</u>
Prairie Warbler	<u>Dendroica discolor</u>
Mississippi Kite	<u>Ictinia mississippiensis</u>
Northern Mockingbird	<u>Mimus polyglottos</u>
Tufted Titmouse	<u>Parus bicolor</u>
Carolina Chickadee	<u>Parus carolinensis</u>
Ruby Crowned Kinglet	<u>Regulus calendula</u>
Golden Crowned Kinglet	<u>Regulus satrapa</u>
Ovenbird	<u>Seiurus aurocapillus</u>
Nashville Warbler	<u>Vermivora ruficapilla</u>
Mourning Dove	<u>Zenaida macroura</u>

10/30/90

Beachfront, including shoreline along waterfront apron; Pensacola Bay open water; Bayou Grande open water; shoreline along dredge spoil fill area; interior mudflats of dredge spoil fill area; and primary dune/scrubby areas of beach.

Great Blue Heron	<u>Ardea herodias</u>
Ruddy Turnstone	<u>Arenaria interpres</u>
Sanderling	<u>Calidris alba</u>
Least Sandpiper	<u>Calidris minutilla</u>
Semi-palmated Sandpiper	<u>Calidris pusilla</u>
Willet	<u>Catoptrophorus semipalmatus</u>
Belted Kingfisher	<u>Ceryle alcyon</u>
Semi-palmated Plover	<u>Charadrius semipalmatus</u>
Killdeer	<u>Charadrius vociferus</u>
Eastern Wood Pewee	<u>Contopus borealis</u>
Fish Crow	<u>Corvus ossifragus</u>
Bluejay	<u>Cyanocitta cristata</u>
Little Blue Heron	<u>Bgretta caerulea</u>
Acadian Flycatcher	<u>Empidonax virescens</u>
Herring Gull	<u>Larus argentatus</u>
Laughing Gull	<u>Larus atricilla</u>
Short-billed Dowitcher	<u>Limnodromus griseus</u>
Northern Mockingbird	<u>Mimus polyglottos</u>
Osprey	<u>Pandion haliaetus</u>
Brown Pelican	<u>Pelecanus occidentalis</u>
Double Crested Cormorant	<u>Phalacrocorax auritus</u>
Black-bellied Plover	<u>Pluvialis squatarola</u>
Chipping Sparrow	<u>Spizella passerina</u>
Roseate Tern	<u>Sterna dougallii</u>
Common Tern	<u>Sterna hirundo</u>
Royal Tern	<u>Sterna maxima</u>
Forester's Tern	<u>Sterna forsteri</u>
Sandwich Tern	<u>Sterna sandircensis</u>
Tree Swallow	<u>Tachycineta bicolor</u>
House Wren	<u>Troglodytes aedon</u>
Uourning Dove	<u>Zenaida macroura</u>

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OCTOBER 1990

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Brown Thrasher	<u>Toxostoma rufum</u>
House Wren	<u>Troglodytes aedon</u>
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White-eyed Vireo	<u>Vireo griseus</u>
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Upland mature **hardwood** forest with ~~some~~ mix of pines.

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Ruby Crowned Kinglet	<u>Regulus calendula</u>
Golden Crowned Kinglet	<u>Regulus satrapa</u>
Ovenbird	<u>Seiurus aurocapillus</u>
Nashville Warbler	<u>Vermivora ruficapilla</u>
Mourning Dove	<u>Zenaida macroura</u>

Forested wetland area, including mature hardwoods and thick uundergrowth mixed with emergent vegetation such as cattails.

Cardinal	<u>Cardinalis cardinalis</u>
American Goldfinch	<u>Carduelis tristis</u>
Harsh Wren	<u>Cistothorus palustris</u>
Northern Flicker	<u>Colaptes auratus</u>
Bluejay	<u>Cyanocitta cristata</u>
Prairie Warbler	<u>Dendroica discolor</u>
Wood Thrush	<u>Hylocichla mustelina</u>
Northern Mockingbird	<u>Mimus polyglottos</u>
Yellow-bellied Sapsucker	<u>Sphyrapicus varius</u>
Brown Thrasher	<u>Toxostoma rufum</u>

3101001

B

1937

APPENDIX B
SURFACE EMISSIONS DATA

SITE 31 SURFACE EMISSIONS SURVEY DATA

COORDINATE OVA OVA
LOCATION BACKGROUND ABOVE BACKGROUND
(ppm) (ppm)

N0+00E0+00	2.6	1.4
N0+00E0+25	2.4	1.2
N0+00E0+50	2.5	1.3
N0+00E0+75	2.3	1.1
N0+00E1+25	2.4	1.2
N0+00E1+50	2.3	1.1
N0+00E1+72	2.4	1.2
N0+00E1+75	2.4	1.2
N0+00E1+00	2.3	1.1
N0+25E0+00	2.6	1.4
N0+25E0+25	2.6	1.4
N0+25E0+50	2.6	1.4
N0+25E0+75	2.6	1.4
N0+25E1+00	2.7	1.5
N0+25E1+25	2.8	1.6
N0+25E1+50	2.8	1.6
N0+25E1+75	2.7	1.5
N0+50E0+00	2.5	1.3
N0+50E0+25	2.2	1.0
N0+50E0+50	2.0	0.8
N0+50E0+75	2.0	0.8
N0+50E0+86	2.0	0.8
N0+50E1+00	1.9	0.7
N0+50E1+25	1.8	0.6
N0+50E1+50	1.8	0.6
N0+50E1+72	1.8	0.6
N0+50E1+75	1.6	0.4
N0+75E0+00	1.5	0.3
N0+75E0+25	1.6	0.4
N0+75E0+50	1.8	0.6
N0+75E0+75	1.9	0.7
N0+75E1+00	1.6	0.4
N0+75E1+25	1.6	0.4
N0+75E1+50	1.6	0.4
N0+75E1+75	1.6	0.4
N0+93E0+43	1.4	0.2
N0+93E1+29	1.4	0.2
N1+00E0+00	1.5	0.3
N1+00E0+25	1.4	0.2
N1+00E0+50	1.4	0.2
N1+00E0+75	1.4	0.2
N1+00E1+00	1.4	0.2
N1+00E1+50	1.5	0.3
N1+00E1+75	1.5	0.3
N1+00E1+25	1.4	0.2

SITE 31 SURFACE EMISSIONS SURVEY DATA

COORDINATE OVA OVA
LOCATION BACKGROUND ABOVE BACKGROUND
 (ppm) (ppm)

N1+25E0+00	1.2	0.0
N1+25E0+25	1.3	0.1
N1+25E0+50	1.3	0.1
N1+25E0+75	1.4	0.2
N1+25E1+00	1.4	0.2
N1+25E1+25	1.5	0.3
N1+25E1+50	1.5	0.3
N1+25E1+75	1.4	0.2
N1+30E1+72	1.5	0.3

C

1945-1946

APPENDIX C

PARTICULATE AIR SCREENING DATA

SITE 31

PARTICULATE AIR SCREENING DATA

Date: May 14, 1991

Wind Direction: West

Wind Velocity: 5 miles per hour

Upwind Location: 50 feet west of western boundary and 50 feet north of southern boundary.

Measurement Duration: 15 minutes

Time Weighted Average Particulate Concentration: 0.00 mg/m³

Downwind Location: 2 feet east of eastern site boundary and 75 feet north of Building 648.

Measurement Duration: 15 minutes

Time Weighted Average Particulate Concentration: 0.01 mg/m³

Upwind/Downwind Difference: 0.01 mg/m³

D

8 12 0970

APPENDIX D
RADIATION SURVEY DATA

SITE 31 RADIATION SURVEY DATA

COORDINATE LOCATION	ESP-2 SURFACE GROSS CPM	ESP-2 SURFACE GROSS DPM	MIICROANALYST 1 METER (uR/h)	SURVEYOR M with PGM PROBE SURFACE GROSS CPM
N0+00E0+00	3800	25333	1.0	20
N0+00E0+25	4600	30667	0.8	25
N0+00E0+50	3800	25333	0.9	20
N0+00E0+75	4600	30667	0.9	20
N0+00E1+25	3800	25333	0.6	20
N0+00E1+50	3600	24000	0.8	20
N0+00E1+72	NA	NA	NA	NA
N0+00E1+75	3850	25667	0.7	20
N0+00E1+00	4200	28000	0.8	20
N0+25E0+00	3500	23333	0.5	25
N0+25E0+25	3400	22667	0.4	25
N0+25E0+50	3600	24000	0.5	20
N0+25E0+75	3400	22667	0.5	20
N0+25E1+00	3700	24667	0.5	18
N0+25E1+25	3600	24000	0.4	20
N0+25E1+50	3600	24000	0.5	15
N0+25E1+75	3000	20000	0.5	30
N0+50E0+00	3000	20000	0.3	30
N0+50E0+25	3200	21333	0.6	15
N0+50E0+50	3200	21333	0.7	20
N0+50E0+75	3300	22000	0.6	20
N0+50E0+86	NA	NA	NA	NA
N0+50E1+00	3300	22000	0.5	18
N0+50E1+25	3300	22000	0.4	20
N0+50E1+50	3200	21333	0.5	20
N0+50E1+72	NA	NA	NA	NA
N0+50E1+75	3300	22000	0.4	20
N0+75E0+00	2700	18000	0.4	15
N0+75E0+25	2700	18000	0.4	20
N0+75E0+50	2700	18000	0.4	20
N0+75E0+75	3200	21333	0.3	20
N0+75E1+00	3300	22000	0.4	25
N0+75E1+25	3100	20667	0.3	25
N0+75E1+50	3200	21333	0.4	20
N0+75E1+75	3000	20000	0.4	30
N0+93E0+43	NA	NA	NA	NA
N0+93E1+29	NA	NA	NA	NA
N1+00E0+00	2800	18667	0.3	15
N1+00E0+25	2600	17333	0.2	25
N1+00E0+50	2700	18000	0.4	20
N1+00E0+75	2900	19333	0.4	20
N1+00E1+00	3000	20000	0.3	20
N1+00E1+50	3500	25333	0.5	20
N1+00E1+75	3200	21333	0.4	20
N1+00E1+25	3300	22000	0.4	18

SITE 31 RADIATION SURVEY DATA

COORDINATE LOCATION	ESP-2 SURFACE GROSS CPM	ESP-2 SURFACE GROSS DPM	MICROANALYST 1 METER (uR/h)	SURVEYOR M with PGM PROBE SURFACE GROSS CPM
N1+25E0+00	2700	18000	0.4	20
N1+25E0+25	2700	18000	0.3	20
N1+25E0+50	3000	20000	0.5	20
N1+25E0+75	3000	20000	0.4	20
N1+25E1+00	3000	20000	0.4	10
N1+25E1+25	2800	18667	0.3	30
N1+25E1+50	3300	22000	0.4	25
N1+25E1+75	3400	22667	0.4	15
N1+30E1+72	NA	NA	NA	NA

E

APPENDIX E

**TEMPORARY MONITORING WELL, SOIL BORING,
AND LITHOLOGIC INFORMATION**

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B001
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/25/91
- 6) Geologist: JOHN WILLIAMS
- 7) Depth of boring (BLS): 20
- 8) Depth to water in borehole (BLS): 17.5
- 9) Highest open-borehole OVA/HNu reading (ppm): 0.6
- 10) Depth of well (BLS): NA
- 11) Length of well screen: NA
- 12) Length of casing (BLS): NA
- 13) Approx. height of casing above land surface: NA
- 14) Depth to water in well (BTOC): NA
- 15) Elevation of TOC: NA
- 16) Water level elevation: NA
- 17) Date groundwater sampled:
- 18) pH (units): NA
- 19) Temperature (degrees C): NA
- 20) Specific conductance (umhos/cm): NA
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.25	Reddish brown, silty sand.
0.25- 5.0	Medium brown to tan sand, medium to coarse grained.
5.0- 10.0	Yellow-tan sand, medium to coarse grained.
10.0- 15.5	Yellow-tan to grey sand, medium to coarse grained.
15.5- 20.0	White sand, medium to coarse grained. Wet at 17.5 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B002
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/25/91
- 6) Geologist: JOHN WILLIAMS
- 7) Depth of boring (BLS): 20
- 8) Depth to water in borehole (BLS): 17
- 9) Highest open-borehole OVA/HNu reading (ppm): 0.1
- 10) Depth of well (BLS): NA
- 11) Length of well screen: NA
- 12) Length of casing (BLS): NA
- 13) Approx. height of casing above land surface: NA
- 14) Depth to water in well (BTOC): NA
- 15) Elevation of TOC: NA
- 16) Water level elevation: NA
- 17) Date groundwater sampled:
- 18) pH (units): NA
- 19) Temperature (degrees C): NA
- 20) Specific conductance (umhos/cm): NA
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.2	Black, organic rich silty sand.
0.2- 3.0	Dark brown sand, medium grained, some shell fragments.
3.0- 5.0	Medium brown to tan sand, medium grained,
5.0- 12.0	Light brown to tan sand, medium to coarse grained.
12.0- 15.0	Light grey to white sand, medium to coarse grained.
15.0- 17.0	Black sand, medium to coarse grained.
17.0-20.0	White sand, medium to coarse grained. Wet at 17 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B003
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/26/91
- 6) Geologist: JOHN WILLIAMS
- 7) Depth of boring (BLS): 20
- 8) Depth to water in borehole (BLS): 17.5
- 9) Highest open-borehole OVA/HNu reading (ppm): 0.3
- 10) Depth of well (BLS): NA
- 11) Length of well screen: NA
- 12) Length of casing (BLS): NA
- 13) Approx. height of casing above land surface: NA
- 14) Depth to water in well (BTOC): NA
- 15) Elevation of TOC: NA
- 16) Water level elevation: NA
- 17) Date groundwater sampled:
- 18) pH (units): NA
- 19) Temperature (degrees C): NA
- 20) Specific conductance (umhos/cm): NA
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.2	Black, organic rich silty sand.
0.2- 5.0	Yellow-tan to medium brown sand, medium to coarse grained.
5.0- 12.0	Yellow-tan sand, medium to coarse grained, coarsens and lightens with depth.
12.0- 20.0	White to off-white sand, medium to coarse grained sand. Wet at 17.5 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B004/P31TW004
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/26/91
- 6) Geologist: JOEN WILLIAMS
- 7) Depth of boring (BLS): 25
- 8) Depth to water in borehole (BLS): 18.5
- 9) Highest open-borehole OVA/HNu reading (ppm): 0.2
- 10) Depth of well (ELS): 22.74
- 11) Length of well screen: 5
- 12) Length of casing (ELS): 17.74
- 13) Approx. height of casing above land surface: 2.26
- 14) Depth to water in well (BTOC): 20.18
- 15) Elevation of TOC: 31.40
- 16) Water level elevation: 11.22
- 17) Date groundwater sampled: 06/27/91
- 18) pH (units): 6.9
- 19) Temperature (degrees C):
- 20) Specific conductance (umhos/cm): 200
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.25	Black, organic rich, silty sand with shell fragments.
0.25- 5.0	Yellow-tan sand, medium grained.
5.0- 12.0	Yellow-tan sand, medium to coarse grained, lightens with depth.
12.0- 15.0	Medium to dark brown sand, medium grained.
15.0- 15.5	Medium to light brown sand, medium grained.
15.5- 25.0	White to off-white sand, medium to coarse grained. Wet at 18.5 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B005/P31TW005
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/26/91
- 6) Geologist: JOHN WILLIAMS
- 7) Depth of boring (BLS): 25
- 8) Depth to water in borehole (BLS): 17.5
- 9) Highest open-borehole OVA/HNu reading (ppm): 2.5
- 10) Depth of well (BLS): 21.82
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 16.82
- 13) Approx. height of casing above land surface: 3.18
- 14) Depth to water in well (BTOC): 20.24
- 15) Elevation of TOC: 31.02
- 16) Water level elevation: 10.78
- 17) Date groundwater sampled: 06/28/91
- 18) pH (units): 7.4
- 19) Temperature (degrees C): 24
- 20) Specific conductance (umhos/cm): 220
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.25	Black, organic rich, silty sand.
0.25- 10.0	Yellow-tan sand, medium to coarse grained.
10.0- 12.0	Yellow-tan to medium brown sand, medium grained, darkens with depth.
12.0- 15.0	Grey-brown sand, medium grained.
15.0- 16.0	Dark grey sand, medium to coarse grained.
16.0- 16.8	Light grey to yellow sand, medium to coarse grained.
16.8-25.0	White to off-white sand, medium to coarse grained. Wet at 17.5 ft.

Notes: All depths, lengths, height, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B006
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/27/91
- 6) Geologist: JOEN WILLIAMS
- 7) Depth of boring (BLS): 20
- 8) Depth to water in borehole (ELS): 19
- 9) Highest open-borehole OVA/HNu reading (ppm): 0
- 10) Depth of well (ELS): NA
- 11) Length of well screen: NA
- 12) Length of casing (BLS): NA
- 13) Approx. height of casing above land surface: NA
- 14) Depth to water in well (BTOC): NA
- 15) Elevation of TOC: NA
- 16) Water level elevation: NA
- 17) Date groundwater sampled:
- 18) pH (units): NA
- 19) Temperature (degrees C): NA
- 20) Specific conductance (umhos/cm): NA
- 21) Borehole/Well abandonment method: Backfilled w/ cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.25	Light grey sand, fine to medium grained with shell fragments.
0.25- 1.0	Medium brown sand, fine to medium grained.
1.0- 13.0	Yellow-tan sand, medium to coarse grained.
13.0- 15.5	Medium brown to grey sand, medium to coarse grained.
15.5- 20.0	White to medium white sand, medium to coarse grained. Wet at 19 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 EA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B007/P31TW007
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/26/91
- 6) Geologist: JOHN WILLIAMS
- 7) Depth of boring (BLS): 25
- 8) Depth to water in borehole (BLS): 17.5
- 9) Highest open-borehole OVA/HNu reading (ppm): 0.4
- 10) Depth of well (BLS): 22.29
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 17.29
- 13) Approx. height of casing above land surface: 2.71
- 14) Depth to water in well (BTOC): 20.04
- 15) Elevation of TOC: 31.03
- 16) Water level elevation: 10.99
- 17) Date groundwater sampled: 06/28/91
- 18) pH (units): 7.0
- 19) Temperature (degrees C): 23
- 20) Specific conductance (umhos/cm): 195
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.3	Grey, silty sand with shell fragments.
0.3- 5.0	Yellow-tan sand, medium grained.
5.0- 13.0	Yellow-light tan sand, medium to coarse grained.
13.0- 15.0	Pale yellow-cream sand, medium to coarse grained.
15.0- 15.5	Cream sand, medium to coarse grained.
15.5- 25.0	White sand, medium to coarse grained. Wet at 17.5 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B008
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/27/91
- 6) Geologist: JEFF LUNCEFORD
- 7) Depth of boring (BLS): 20
- 8) Depth to water in borehole (BLS): 18
- 9) Highest open-borehole OVA/HNu reading (ppm): 0.5
- 10) Depth of well (BLS): NA
- 11) Length of well screen: NA
- 12) Length of casing (BLS): NA
- 13) Approx. height of casing above land surface: NA
- 14) Depth to water in well (BIOC): NA
- 15) Elevation of TOC: NA
- 16) Water level elevation: NA
- 17) Date groundwater sampled:
- 18) pH (units): NA
- 19) Temperature (degrees C): NA
- 20) Specific conductance (umhos/cm): NA
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.2	Dark grey, organic, silty soil.
0.2- 6.0	Tan to light brown sand, fine to medium grained.
6.0- 17.0	Light tan sand, fine to medium grained.
17.0- 20.0	Off-white to buff sand, fine to medium grained. Wet at 18 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 EA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BIOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B009/P31TW009
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/26/91
- 6) Geologist: JOHN WILLIAMS
- 7) Depth of boring (BLS): 25
- 8) Depth to water in borehole (BLS): 17.5
- 9) Highest open-borehole OVA/HNu reading (ppm): 0.2
- 10) Depth of well (BLS): 22.63
- 11) Length of well screen: 5
- 12) Length of casing (BLS): 17.63
- 13) Approx. height of casing above land surface: 2.37
- 14) Depth to water in well (BTOC): 20.43
- 15) Elevation of TOC: 31.75
- 16) Water level elevation: 11.32
- 17) Date groundwater sampled: 06/27/91
- 18) pH (units): 6.8
- 19) Temperature (degrees C): 24
- 20) Specific conductance (umhos/cm): 200
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments :

BOREHOLE LITEOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.25	Light grey sand, with shell fragments.
0.25- 5.0	Yellow-tan sand, medium grained.
5.0- 11.0	Yellow-light tan sand, medium to coarse grained.
11.0- 15.0	Tan to grey sand, medium to coarse grained.
15.0- 17.0	Light tan to medium grey sand, medium to coarse grained.
17.0- 25.0	White sand, medium to coarse grained. Wet at 17.5 ft.

Notes: All depths lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B010
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/27/91
- 6) Geologist: JOHN WILLIAMS
- 7) Depth of boring (BLS): 20
- 8) Depth to water in borehole (BLS): 19.6
- 9) Highest open-borehole OVA/HN₀ reading (ppm): 2.0
- 10) Depth of well (BLS): NA
- 11) Length of well screen: NA
- 12) Length of casing (BLS): NA
- 13) Approx. height of casing above land surface: NA
- 14) Depth to water in well (BTOC): NA
- 15) Elevation of TOC: NA
- 16) Water level elevation: NA
- 17) Date groundwater sampled:
- 18) pH (units): NA
- 19) Temperature (degrees C): NA
- 20) Specific conductance (umhos/cm): NA
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments: Pesticides and or petroleum odor noted.

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.5	Dark brown, silty sand, with quartz pebbles.
0.5- 5.0	Brown-yellow-tan sand, medium grained.
5.0- 10.0	Yellow-tan-orange sand, medium to coarse grained.
10.0- 15.0	Tan sand, medium to coarse grained.
15.0- 20.0	White sand, medium to coarse grained, slight pesticide and/or petroleum odor. Vet at 19.6 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

- 1) Site no.: 31
- 2) Boring no./Well no.: P31B011
- 3) Drilling firm: Griner Drilling Service
- 4) Drilling method: SSA
- 5) Date drilled/installed: 06/27/91
- 6) Geologist: JEFF LUNCEFORD
- 7) Depth of boring (BLS): 20
- 8) Depth to water in borehole (BLS): 18
- 9) Highest open-borehole OVA/HNu reading (ppm): 8
- 10) Depth of well (BLS): NA
- 11) Length of well screen: NA
- 12) Length of casing (BLS): NA
- 13) Approx. height of casing above land surface: NA
- 14) Depth to water in well (BTOC): NA
- 15) Elevation of TOC: NA
- 16) Water level elevation: NA
- 17) Date groundwater sampled:
- 18) pH (units): NA
- 19) Temperature (degrees C) : NA
- 20) Specific conductance (umhos/cm): NA
- 21) Borehole/Well abandonment method: Backfilled with cuttings.
- 22) Comments: Organic odor detected in soil at depth.

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.2	Dark grey, silty soil, with shell fragments.
0.2- 5.0	Tan to light brown sand, fine to medium grained.
5.0- 13.0	Light tan sand, fine to medium grained.
13.0- 16.0	Light tan to off-white sand, fine to medium grained.
16.0- 20.0	Off-white to buff sand, fine to medium grained. Wet at 18 ft. Organic odor detected.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens are 2-inch-diameter; well screen slot sizes are .010 inches. No annular material (i.e. filter pack, seal or grout) was used in well installation. Unless otherwise noted, all sand grains are quartz.

NA = not applicable
 SSA = solid stem auger
 HA = hand auger
 NR = No Reading

BLS = below land surface
 TOC = top of casing
 BTOC = below top of casing

F

APPENDIX F
SOIL SAMPLING
ANALYTICAL SCREENING RESULTS

MEMORANDUM

TO : John Barksdale
FROM: Gary Hahn *Gary Hahn*
DATE: July 16, 1991
SUBJECT: UH-8000 Pensacola Report
RE: 9101.556
CC: Lab File

Attached is the laboratory report of the analysis conducted on nineteen samples received at the Analytical Services Center on June 28, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

MEMORANDUM

TO: John Barksdale
FROM: Gary Hahn *Gary Hahn/kr*
DATE: July 12, 1991
SUBJECT: UH-8000 Pensacola Report
RE: 9101.524
CC: Lab File

Attached is the laboratory report of the analysis conducted on twenty samples received at the Analytical Services Center on June 27, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

3101016

MEMORANDUM

TO : John Barksdale
FROM: Gary Hahn *Gary Hahn*
DATE: July 12, 1991
SUBJECT: UH-8000 Pensacola Report
RE: 9101.505
CC: Lab Pile

Attached is the laboratory report of the analysis conducted on nine samples received at the Analytical Services Center on June 26, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

Job # 9101.505

SAMPLE RANGE ~~14487~~ — 14494
 14486

CHAIN-OF-CUSTODY RECORD

Project No.: W18020		Project Name: NAS Pensacola		Project Manager: John Barksdale		Field Team Leader: John Tully		REMARKS													
Samplers: (Signatures) <i>[Signature]</i>																					
STATION NUMBER	DATE	TIME	SAMPLE TYPE		EXPECTED COMPOUND (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SCREENING METHODS													
			COMB	GRAB				AIR	1	2	3	4	5	6	7	8	9	10	11	12	
315 001A	6/25/91	1548	X		LOW	Site 31, BOO 1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
315 001B	6/25/91	1551	X			BOO 1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
315 001C	6/25/91	1556	X			BOO 1	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
315 001D	6/25/91	1604	X			BOO 6	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
315 002A	6/25/91	1510	X			BOO 2	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
315 002B	6/25/91	1515	X			BOO 2	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
315 002C	6/25/91	1520	X			BOO 2	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
315 002D	6/25/91	1531	X			BOO 2	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time: 6/25/91 1700		Received By: (Signature) <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Ship Via: Federal Express									
Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		Relinquished By: (Signature)		Date/Time:		Received By: (Signature)		BL/Airbill Number: 0T16546164									
Relinquished By: (Signature) <i>[Signature]</i>		Date/Time: 6-26-91		Received For Laboratory By: <i>[Signature]</i>		Relinquished By: (Signature)		Date/Time:		Received For Laboratory By: (Signature)		Date: 6/26/91									

SCREENING METHODS
 SCREENING VOCs
 SCREENING ALCOHOLS
 SCREENING PAHs
 SCREENING PCBs
 SCREENING PESTICIDES
 SCREENING PCBs

8 oz jars:
 lot # 1091051
 for BOO 2 ABCD
 BOO 1 AB, D
 lot # X033013
 BOO 1 C, CD
 VOCs
 lot # 1123033

Distribution: Original Accompanies Shipment; Copy to Coordinator/Field Files
 *See CONCENTRATION RANGE on back of form.

3301017

Job# 7101.524
SAMPLE RANGE 14597-14616

CHAIN-OF-CUSTODY RECORD

Project No.: UH8020		Project Name: NASP Group B			Project Manager: John Barksdale			
Samplers: (Signatures) <i>[Signatures]</i>				Field Team Leader: D. Foss <i>[Signature]</i>				
STATION NUMBER	DATE (M/D/Y)	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS	SCREENING PAHs, PCBs, SCREENING METALS, TRP, PC, SORBING - VOCs, SCREENING - PESTICIDES + PCBs
			LIQ	GRAB	AIR			
S0001	6/26	1125	X			LOW	SP001 EK-6J	X X X X
S007C	6/26	1505	X				Site 31 B007	X X X X
S007D	6/26	1500	X				B007	X X X X
S009A	6/26	1510	X				B009	X X X X
S009B	6/26	1513	X				B009	X X X X
S009C	6/26	1510	X				B009	X X X X
S009D	6/26	1535	X				B009	X X X X

X Job # 9101.523

Relinquished By: (Signature) <i>[Signature]</i>	Date/Time: 6/26/91 1700	Received By: (Signature) <i>[Signature]</i>	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via: Fed Ex
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: 076546186
Relinquished By: (Signature) <i>[Signature]</i>	Date/Time: 0930 6-27-91	Received For Laboratory By: (Signature) <i>[Signature]</i>	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 6/26/91

*See CONCENTRATION RANGE on back of form.

5101018

B14

CHAIN-OF-CUSTODY RECORD

Project No:		Project Name:		Project Manager:		REMARKS		
H10050		NAS Pensacola		John Parksdale				
Samplers (Signatures):		Field Team Leader:		Chuy Tully				
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS	
			CONC	GRAB	AIR			
EXPECTED COMPOUNDS (Concentration)*								
P315006A	6/27	0820	✓			Site 31, P006	3	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"> VOUCHERS FOR P315006A, P315006B, P315006C, P315006D, P315010A, P315010B, P315010C, P315010D, P315009A, P315009B, P315009C, P315009D, P315011A </p>
P315006B		0825	✓			P006	3	
P315006C		0830	✓			P006	3	
P315006D		0836	✓			P006	3	
P315010A		0900	✓			P010	3	
P315010B		0905	✓			P010	3	
P315010C		0911	✓			P010	3	
P315010D		0911	✓			P010	3	
P315009D		0920	✓			P010	3	
P315009A		0948	✓			P008	3	
P315009B		0950	✓			P008	3	
P315009C		0958	✓			P008	3	
P315009D		1005	✓			P008	3	
P315011A		1025	✓			P011	3	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via:
Chuy Tully	6/27/91 1700					Fed-X
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number:
						0776546201
Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date:
Ed. Egan	6-28-91 1030	2/11/91 H. Howard				6/27/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
*See CONCENTRATION RANGE on back of form.

CHAIN-OF-CUSTODY RECORD

Project No: W1050			Project Name: NAS Pensacola			Project Manager: John Parkdale			REMARKS											
Samplers: (Signatures) <i>[Signatures]</i>			Field Team Leader: <i>[Signature]</i>																	
STATION NUMBER	DATE	TIME	SAMPLE TYPE			EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SCREENING METALS (A8.11) SCREENING TRH (A8.11) SCREENING DIENES (A8.11) SCREENING PCBs (A8.11) SCREENING VOCs (A8.11) SCREENING PAHs (A8.11)											
			COND	GAAS	AIR															
35011B	6/27/91	1028	X			low	Site 31, Boll	3	X	X	X	X	X	X	X	X	X	X	X	X
35011C	↓	1034	X				Boll	3	X	X	X	X	X	X	X	X	X	X	X	X
35011D	↓	1039	X				Boll	3	X	X	X	X	X	X	X	X	X	X	X	X
Relinquished By: (Signature) <i>[Signature]</i>			Date/Time: 6/27/91 1700			Received By: (Signature) <i>[Signature]</i>			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Ship Via: Fed-X		
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			BL/Airbill Number: 0776546201		
Relinquished By: (Signature) <i>[Signature]</i>			Date/Time: 6-28-91/0930			Received For Laboratory By: (Signature) <i>[Signature]</i>			Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature)			Date: 6/27/91		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
 *See CONCENTRATION RANGE on back of form.

3111019

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14809.02	P31-S008D	SPNTPH1	06/27/91		07/09/91
14810.01	P31-S010A	SPNPRG1	06/27/91		07/04/91
14810.02	P31-S010A	SPNTPH1	06/27/91		07/09/91
14810.03	P31-S010A	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14811.01	P31-S010B	SPNPRG1	06/27/91		07/04/91
14811.02	P31-S010B	SPNTPH1	06/27/91		07/09/91
14811.03	P31-S010B	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14812.01	P31-S010C	SPNPRG1	06/27/91		07/04/91
14812.02	P31-S010C	SPNTPH1	06/27/91		07/09/91
14812.03	P31-S010C	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14813.01	P31-S010CD	SPNPRG1	06/27/91		07/04/91
14813.02	P31-S010CD	SPNTPH1	06/27/91		07/09/91
14813.03	P31-S010CD	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14814.01	P31-S010D	SPNPRG1	06/27/91		07/04/91
14814.02	P31-S010D	SPNTPH1	06/27/91		07/09/91
14814.03	P31-S010D	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14815.01	P31-S011A	SPNPRG1	06/27/91		07/04/91
14815.02	P31-S011A	SPNTPH1	06/27/91		07/12/91
14815.03	P31-S011A	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14816.01	P31-S011B	SPNPRG1	06/27/91		07/04/91
14816.02	P31-S011B	SPNTPH1	06/27/91		07/12/91
14816.03	P31-S011B	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14817.01	P31-S011C	SPNPRG1	06/27/91		07/04/91
14817.02	P31-S011C	SPNTPH1	06/27/91		07/12/91
14817.03	P31-S011C	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
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14817.03	P31-S011C	SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14818.01	P31-S011D	SPNPRG1	06/27/91		07/04/91
14818.02	P31-S011D	SPNTPH1	06/27/91		07/12/91
14818.03	P31-S011D	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14819.01	P31-GW004	WPNPRG1	06/27/91		07/05/91
14819.03	P31-GW004	WPNP&P1	06/27/91		07/09/91
		WPNPAH1	06/27/91		07/10/91
		WPNPHL1	06/27/91		07/09/91
14819.04	P31-GW004	WPNTPH1	06/27/91		07/01/91
14819.05	P31-GW004	WPNMET1	06/27/91		07/02/91
14820.01	P31-GW009	WPNPRG1	06/27/91		07/08/91
14820.03	P31-GW009	WPNP&P1	06/27/91		07/09/91
		WPNPAH1	06/27/91		07/10/91
		WPNPHL1	06/27/91		07/09/91
14820.04	P31-GW009	WPNTPH1	06/27/91		07/01/91
14820.05	P31-GW009	WPNMET1	06/27/91		07/02/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TBST CODB	DATE SAMPLED	DATB EXTRACTED	DATE ANALYZED
14486.01	P31-S001A	SPNPRG1	06/25/91		06/28/91
14486.02	P31-S001A	SPNTPH1	06/25/91		06/27/91
14486.03	P31-S001A	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91
		SPNPHL1	06/25/91		07/03/91
14487.01	P31-S001B	SPNPRG1	06/25/91		06/28/91
14487.02	P31-S001B	SPNTPH1	06/25/91		06/27/91
14487.03	P31-S001B	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91
		SPNPHL1	06/25/91		07/03/91
14488.01	P31-S001C	SPNPRG1	06/25/91		06/28/91
14488.02	P31-S001C	SPNTPH1	06/25/91		06/27/91
14488.03	P31-S001C	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91
		SPNPHL1	06/25/91		07/03/91
14489.01	P31-S001CD	SPNPRG1	06/25/91		06/28/91
14489.02	P31-S001CD	SPNTPH1	06/25/91		06/28/91
14489.03	P31-S001CD	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91
		SPNPHL1	06/25/91		07/03/91
14490.01	P31-S001D	SPNPRG1	06/25/91		06/28/91
14490.02	P31-S001D	SPNTPH1	06/25/91		06/28/91
14490.03	P31-S001D	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91
		SPNPHL1	06/25/91		07/03/91
14491.01	P31-S002A	SPNPRG1	06/25/91		06/28/91
14491.02	P31-S002A	SPNTPH1	06/25/91		06/28/91
14491.03	P31-S002A	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91
		SPNPHL1	06/25/91		07/03/91
14492.01	P31-S002B	SPNPRG1	06/25/91		06/28/91
14492.02	P31-S002B	SPNTPH1	06/25/91		06/28/91
14492.03	P31-S002B	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91
		SPNPHL1	06/25/91		07/03/91
14493.01	P31-S002C	SPNPRG1	06/25/91		06/28/91
14493.02	P31-S002C	SPNTPH1	06/25/91		06/28/91
14493.03	P31-S002C	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14493.03	P31-S002C	SPNPHL1	06/25/91		07/03/91
14494.01	P31-S002D	SPNPRG1	06/25/91		06/28/91
14494.02	P31-S002D	SPNTPH1	06/25/91		06/28/91
14494.03	P31-S002D	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/01/91
		SPNPAH1	06/25/91		07/02/91
		SPNPHL1	06/25/91		07/03/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14597.01	P31-S003A	SPNPRG1	06/26/91		07/02/91
14597.02	P31-S003A	SPNTPH1	06/26/91		06/28/91
14597.03	P31-S003A	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/03/91
		SPNPHL1	06/26/91		07/06/91
14598.01	P31-S003B	SPNPRG1	06/26/91		07/02/91
14598.02	P31-S003B	SPNTPH1	06/26/91		06/28/91
14598.03	P31-S003B	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/03/91
		SPNPHL1	06/26/91		07/06/91
14599.01	P31-S003C	SPNPRG1	06/26/91		07/02/91
14599.02	P31-S003C	SPNTPH1	06/26/91		06/28/91
14599.03	P31-S003C	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/03/91
		SPNPELL1	06/26/91		07/06/91
14600.01	P31-S003D	SPNPRG1	06/26/91		07/02/91
14600.02	P31-S003D	SPNTPH1	06/26/91		06/28/91
14600.03	P31-S003D	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/03/91
		SPNPELL1	06/26/91		07/06/91
14601.01	P31-S004A	SPNPRG1	06/26/91		07/02/91
14601.02	P31-S004A	SPNTPH1	06/26/91		06/28/91
14601.03	P31-S004A	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/04/91
		SPNPELL1	06/26/91		07/06/91
14602.01	P31-S004B	SPNPRG1	06/26/91		07/03/91
14602.02	P31-S004B	SPNTPH1	06/26/91		06/28/91
14602.03	P31-S004B	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/04/91
		SPNPELL1	06/26/91		07/06/91
14603.01	P31-S004C	SPNPRG1	06/26/91		07/03/91
14603.02	P31-S004C	SPNTPH1	06/26/91		06/28/91
14603.03	P31-S004C	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/04/91
		SPNPELL1	06/26/91		07/06/91
14604.01	P31-S004D	SPNPRG1	06/26/91		07/03/91
14604.02	P31-S004D	SPNTPH1	06/26/91		06/28/91
14604.03	P31-S004D	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/04/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATB SAMPLED	DATB EXTRACTED	DATE ANALYZED
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14604.03	P31-S004D	SPNPHL1	06/26/91		07/06/91
14605.01	P31-S005A	SPNPRG1	06/26/91		07/03/91
14605.02	P31-S005A	SPNTPH1	06/26/91		06/28/91
14605.03	P31-S005A	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/04/91
		SPNPHL1	06/26/91		07/06/91
14606.01	P31-S005B	SPNPRG1	06/26/91		07/03/91
14606.02	P31-S005B	SPNTPH1	06/26/91		06/28/91
14606.03	P31-S005B	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/04/91
		SPNPHL1	06/26/91		07/06/91
14607.01	P31-S005C	SPNPRG1	06/26/91		07/03/91
14607.02	P31-S005C	SPNTPH1	06/26/91		07/01/91
14607.03	P31-S005C	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/04/91
		SPNPHL1	06/26/91		07/08/91
14608.01	P31-S005D	SPNPRG1	06/26/91		07/03/91
14608.02	P31-S005D	SPNTPH1	06/26/91		07/01/91
14608.03	P31-S005D	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/04/91
		SPNPHL1	06/26/91		07/08/91
14609.01	P31-S007A	SPNPRG1	06/26/91		07/03/91
14609.02	P31-S007A	SPNTPH1	06/26/91		07/01/91
14609.03	P31-S007A	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/05/91
		SPNPHL1	06/26/91		07/08/91
14610.01	P31-S007B	SPNPRG1	06/26/91		07/03/91
14610.02	P31-S007B	SPNTPH1	06/26/91		07/01/91
14610.03	P31-S007B	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/03/91
		SPNPAH1	06/26/91		07/05/91
		SPNPHL1	06/26/91		07/08/91
14611.01	P31-S007C	SPNPRG1	06/26/91		07/03/91
14611.02	P31-S007C	SPNTPH1	06/26/91		07/01/91
14611.03	P31-S007C	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/03/91
		SPNPAH1	06/26/91		07/05/91
		SPNPHL1	06/26/91		07/08/91
14612.01	P31-S007D	SPNPRG1	06/26/91		07/03/91
14612.02	P31-S007D	SPNTPH1	06/26/91		07/01/91
14612.03	P31-S007D	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/03/91

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14802.01	P31-S006A	SPNPRG1	06/27/91		07/04/91
14802.02	P31-S006A	SPNTPH1	06/27/91		07/09/91
14802.03	P31-S006A	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/08/91
		SPNPAH1	06/27/91		07/09/91
		SPNPHL1	06/27/91		07/09/91
14803.01	P31-S006B	SPNPRG1	06/27/91		07/04/91
14803.02	P31-S006B	SPNTPH1	06/27/91		07/09/91
14803.03	P31-S006B	SPNMET1	06/27/91		07/02/91
		SPNPCP1	06/27/91		07/08/91
		SPNPAH1	06/27/91		07/09/91
		SPNPHL1	06/27/91		07/09/91
14804.01	P31-S006C	SPNPRG1	06/27/91		07/04/91
14804.02	P31-S006C	SPNTPH1	06/27/91		07/09/91
14804.03	P31-S006C	SPNMET1	06/27/91		07/02/91
		SPNPCP1	06/27/91		07/08/91
		SPNPAH1	06/27/91		07/09/91
		SPNPHL1	06/27/91		07/09/91
14805.01	P31-S006D	SPNPRG1	06/27/91		07/04/91
14805.02	P31-S006D	SPNTPH1	06/27/91		07/09/91
14805.03	P31-S006D	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/08/91
		SPNPAH1	06/27/91		07/09/91
		SPNPHL1	06/27/91		07/09/91
14806.01	P31-S008A	SPNPRG1	06/27/91		07/04/91
14806.02	P31-S008A	SPNTPH1	06/27/91		07/09/91
14806.03	P31-S008A	SPNMET1	06/27/91		07/02/91
		SPNPCP1	06/27/91		07/08/91
		SPNPAH1	06/27/91		07/09/91
		SPNPHL1	06/27/91		07/09/91
14807.01	P31-S008B	SPNPRG1	06/27/91		07/04/91
14807.02	P31-S008B	SPNTPH1	06/27/91		07/09/91
14807.03	P31-S008B	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/08/91
		SPNPAH1	06/27/91		07/09/91
		SPNPHL1	06/27/91		07/09/91
14808.01	P31-S008C	SPNPRG1	06/27/91		07/04/91
14808.02	P31-S008C	SPNTPH1	06/27/91		07/09/91
14808.03	P31-S008C	SPNMET1	06/27/91		07/02/91
		SPNPCP1	06/27/91		07/08/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14809.01	P31-S008D	SPNPRG1	06/27/91		07/04/91
14809.02	P31-S008D	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/08/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91

Ecology and Environment, Inc.
 SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14612.03	P31-S007D	SPNPAH1	06/26/91		07/05/91
		SPNPHL1	06/26/91		07/08/91
14613.01	P31-S009A	SPNPRG1	06/26/91		07/03/91
14613.02	P31-S009A	SPNTPH1	06/26/91		07/01/91
14613.03	P31-S009A	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/03/91
		SPNPAH1	06/26/91		07/05/91
		SPNPHL1	06/26/91		07/08/91
14614.01	P31-S009B	SPNPRG1	06/26/91		07/03/91
14614.02	P31-S009B	SPNTPH1	06/26/91		07/01/91
14614.03	P31-S009B	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/03/91
		SPNPAH1	06/26/91		07/05/91
		SPNPHL1	06/26/91		07/08/91
14615.01	P31-S009C	SPNPRG1	06/26/91		07/03/91
14615.02	P31-S009C	SPNTPH1	06/26/91		07/01/91
14615.03	P31-S009C	SPNMET1	06/26/91		07/01/91
		SPNPLP1	06/26/91		07/03/91
		SPNPAH1	06/26/91		07/05/91
		SPNPHL1	06/26/91		07/08/91
14616.01	P31-S009D	SPNPRG1	06/26/91		07/03/91
14616.02	P31-S009D	SPNTPH1	06/26/91		07/01/91
14616.03	P31-S009D	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/03/91
		SPNPAH1	06/26/91		07/05/91
		SPNPHL1	06/26/91		07/08/91

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-14486

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S001A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	1.8		1.0	MG/KG
Zinc	3.8		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = BESTIMED VALUE B = ALSO PRESENT IN BUNK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Curter

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BB-91-14487

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S001B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14488

MATRIX: SOLID

SAMPLE ID CLIENT; P31-S001C

PARAMETER	RESULTS	a	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT

SAMPLE ID LAB : BB-91-14489
SAMPLE ID CLIENT: P31-S001CD

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND	-	6.0	MG/KG
Chromium	1.8		1.0	MG/KG
Zinc	6.6		2.0	MG/KG
Lead	7.0		4.0	MG/KG
cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAHPLB ID LAB : EE-91-14490

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S001D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14491

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S002A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATBD DETECTION LIMIT
 NA = NOT APPLICABLE

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAUPLB ID LAB : EE-91-14492

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S002B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIUIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.9	MG/KG
Silver	ND		1.0	MG/KG

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QUALIFIERS: C = © ——— ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIUIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BB-91-14493

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S002C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	HG/KG
Chromium	ND		1.0	HG/KG
Zinc	7.8		2.0	HG/KG
Lead	ND		4.0	HG/KG
Cadmium	ND		0.50	HG/KG
Nickel	ND		4.0	HG/KG
Copper	ND		2.5	HG/KG
Silver	ND		1.0	HG/KG

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT
 NA - NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-14494

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S002D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND	-	6.0	MG/KG
Chromium	ND	-	1.0	MG/KG
Zinc	ND	-	2.0	MG/KG
Lead	ND	-	4.0	MG/KG
Cadmium	ND	-	0.50	MG/KG
Nickel	ND	-	4.0	MG/KG
Copper	ND	-	2.5	MG/KG
Silver	ND	-	1.0	MG/KG

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QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-14597

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S003A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND	-	6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EB-91-14598

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S003B

PARAMETER	RESULTS	Q	QNT. LIUIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIUATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIUIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14599

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S003C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>ONT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	8.8		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14600

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S003D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	7.2		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-14601

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S004A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.2		1.0	MG/KG
Zinc	4.6		2.0	MG/KG
Lead	12		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14602

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S004B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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 QUALIFIERS: C = CON — ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BUNK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASB I BATCH 2

RESULTS IN VET WEIGHT

SAMPLE ID LAB : BE-91-14603

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S004C

PARAMETER	RESULTS	Q	ONT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	5.5		4.0	MG/KG
Cadmium	5.7		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		25	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14604

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S004D

PARAMETER	RESULTS	Q	QNT. LIHIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	7.1		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, fnc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-14605

MATRIX: SOLID

SAHPLE ID CLIENT: P31-S005A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	13		2.0	MG/KG
Lead	12		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = ∞ ——— ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14606

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S005B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	11		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
 QUALIFIERS: C ■ COMMENT ND ■ NOT DETECTED
 J ■ ESTIMATED VALUE B ■ ALSO PRESENT IN BLANK
 L ■ PRESENT BELOW STATED DETECTION LIMIT
 NA ■ NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14607

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S005C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	3.5		2.0	MG/KG
Lead	6.0		4.0	MG/KG
Cadmium	ND		9.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14608

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S005D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	3.7		2.0	MG/KG
Lead	6.2		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET VEIGHT

SAMPLE ID LAB : BE-91-14802

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S006A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	1.3.		1.0	MG/KG
Zinc	2.3		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14803

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S006B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EB-91-14804

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S006C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT **BELOW** STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14805

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S006D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-				
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Bcology and Environment, Inc.
 Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BB-91-14609

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S007A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	3.9		2.0	MG/KG
Lead	10		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATBD DETECTION LIMIT
 NA = NOT APPLICABLE

Bcology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14610

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S007B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	11		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS; C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAHPLB ID LAB : EE-91-14611 MATRIX: SOLID
SAHPLB ID CLIENT: P31-S007C

PARAMETER	RESULTS	Q	ONT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	23		2.0	MG/KG
Lead	10		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14612

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S007D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-14806

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S008A

PARAMETER	RESULTS	Q	ONT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.4		1.0	MG/KG
Zinc	2.6		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14807

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S008B

PARAMETER -----	RESULTS -----	Q -	QNT. LIHIT -----	UNITS -----
-				
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-14808

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S008C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14809

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S008D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
-		-		
Arsenic	UD		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : BE-91-14613

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S009A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	1.2		1.0	MG/KG
Zinc	4.0		2.0	MG/KG
Lead	7.3		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT **ND = NOT DETECTED**
J = ESTIMATED VALUE **B = ALSO PRESENT IN BLANK**
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN VET WEIGHT

SAMPLE ID LAB : BE-91-14614

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S009B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	4.5		2.0	MG/KG
Lead	1.1		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center.

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14615 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S009C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	2.2		2.0	MG/KG
Lead	6.2		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRBSENT BELOW STATBD DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14616

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S009D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	1.4		1.0	MG/KG
Zinc	2.7		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN VET WEIGHT

SAMPLE ID LAB : EE-91-14810

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S010A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	8.7		1.0	MG/KG
Zinc	7.5		2.0	MG/KG
Lead	5.8		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14811

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S010B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
-				
Arsenic	ND		6.0'	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14812

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	2.2		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14813

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S010CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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QUALIFIERS: C ■ COMMENT ND ■ NOT DETECTED
 J ■ ESTIMATED VALUE B ■ ALSO PRESENT IN BLANK
 L ■ PRESENT BELOW STATED DETECTION LIMIT
 NA ■ NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN VET WEIGHT

SAMPLE ID LAB : EE-91-14814

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S010D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	5.2		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : EE-91-14815

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S011A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	2.4		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

SAMPLE ID LAB : BE-91-14816

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S011B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAHPLE ID LAB : EE-91-14817

MATRIX: SOLID

SAHPLE ID CLIENT: P31-S011C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET VEIGHT

SAMPLE ID LAB : BE-91-14818

MATRIX: SOLID

SAMPLE ID CLIENT: P31-S011D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	2.4		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRBSENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASB I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Biology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	5.9		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATBD DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

SAMPLE ID LAB : METHOD BLANK

MATRIX: SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.524

(ng/kg)

Parameter	E & E Laboratory No. 91- 14609	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	190	93
Chromium		ND	20	22	111
Zinc		3.9	50	54	99
Lead		10	50	54	88
Cadmium		ND	5.0	5.2	104
Nickel		ND	50	51	102
Copper		ND	25	25	99
Silver		ND	5.0	5.1	102

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT
RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

3101048

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101.524

(mg/kg)

Parameter	E & E Laboratory No. 91- 14599	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Chromium		ND	ND	NC
Zinc		ND	ND	NC
Lead		8.8	8.8	0
Cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD'S ARE
CALCULATED DIRECTLY FROM THE RAW DATA.

**QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES**

9101.524

(mg/kg)

Parameter	E & E Laboratory No. 91- 14599	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	190	94
Chromium		ND	20	20	100
Zinc		ND	50	52	104
Lead		8.8	50	59	101
Cadmium		ND	5.0	5.3	106
Nickel		ND	50	50	100
Copper		ND	25	26	104
Silver		ND	5.0	5.2	104

ND - NOT DETECTED

** - RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

3101043

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101.524

(mg/kg)

Parameter	E & E Laboratory No. 91- 14609	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Chromium		ND	1.0	NC
Zinc		3.9	4.6	16
Lead		10	8.6	15
Cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD'S ARE
CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101.556

(ng/kg)

Parameter	E C E Laboratory No. 91- 14802	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Chromium		1.3	ND	NC
Zinc		2.3	2.1	9.1
Lead		ND	ND	NC
Cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD'S ARE
CALCULATED DIRECTLY FROM THE RAW DATA.

3101050

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.556

(mg/kg)

Parameter	E & E Laboratory No. 91- 14802	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	190	93
Chromium		1.3	20	20	94
Zinc		2.3	50	48	91
Lead		ND	50	47	94
Cadmium		ND	5.0	4.6	98
Nickel		ND	50	46	98
Copper		ND	25	23	91
Silver		ND	5.0	4.5	90

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT
RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR **PRECISION**
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID **SAMPLES**

9101.556

(mg/kg)

Parameter	E & E Laboratory No. 91- 14808	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Chromium		ND	ND	NC
Zinc		ND	ND	NC
Lead		ND	ND	NC
Cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

ND - NOT DETECTED

NC - NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD'S ARE
CALCULATED DIRECTLY FROM THE RAW DATA.

3101051

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.556

(mg/kg)					
Parameter	E & E Laboratory No. 91- 14808	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	200	99
Chromium		ND	20	20	99
Zinc		ND	50	50	99
Lead		ND	50	48	96
Cadmium		ND	5.0	4.6	92
Nickel		ND	50	50	99
Copper		ND	25	24	98
Silver		ND	5.0	5.2	103

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB : EE-91-14486 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S001A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	13	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14487 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S001B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	31	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Curter

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14488 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S001C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	8.6	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB :EE-91-14489 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S001CD

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	8.3	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Curter

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB : EE-91-14490 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S001D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	21	-	5.0	MG/KG

 QUALIFIERS: C = ∞ ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14491 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S002A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	18	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14492 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S002B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	12	-	5.0	MG/KG

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT
 NA - NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB : EE-91-14493 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S002C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	20	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB :EE-91-14494 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S002D

PARAMETER	RESULTS	a	QNT. LIMIT	UNIS
TRPH	32	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB : EE-91-14597 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S003A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	27	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14598 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S003B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
----- TRPH	19	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14599 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S003C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	66	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB : EE-91-14600 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S003D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	16	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB :EE-91-14601 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S004A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	16	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14602 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S004B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>ONT. LIMIT</u>	<u>UNITS</u>
TRPH	17	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3101059

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14603 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	14	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14604 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S004D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	10		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14605 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S005A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	6.1	-	5.0	MG/KG

.....
QUALIFIERS: C ■ COMMENT ND ■ NOT DETECTED
J ■ ESTIMATED VALUE B ■ ALSO PRESENT IN BLANK
L ■ PRESENT BELOW STATED DETECTION LIMIT
NA ■ NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14606 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S005B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	18		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
SAMPLE ID LAB :EE-91-14607 MATRIX: SOLID
SAMPLE ID CLIENT: P31-SOOSC

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	5.0	MG/KG

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB : EE-91-14608 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S005D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
 SAHPLE ID LAB :EE-91-14802 MATRIX: SOLID
 SAHPLE ID CLIENT: P31-S006A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND		5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB : EE-91-14803 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S006B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND		5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB :EE-91-14804 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S006C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14805 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S006D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3101064

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14609 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical **Services** Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB : EE-91-14610 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S007B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14611 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S007C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Biology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB : EE-91-14612 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S007D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB :EE-91-14806 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S008A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	5.0	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14807 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S008B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
 SAMPLE ID LAB :EE-91-14808 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S008C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SMIPLE ID LAB :EE-91-14809 MATRIX: SOLID
SMIPLE ID CLIENT: P31-S008D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATBD VALUE B = ALSO PRESENT IN BLANK
L = PRBSENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

3101068

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCB 2
SAMPLE ID LAB : EE-91-14613 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S009A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14614 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S009B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
 SAMPLE ID LAB : EE-91-14615 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S009C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14616 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S009D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAHPLE ID LAB :EE-91-14810 HATRIX: SOLID
 SAMPLE ID CLIENT: P31-S010A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	23	-	5.0	MG/KG

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14811 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S010B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND		5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14812 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	9.0	-	5.0	MG/KG

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DEIECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB :EE-91-14813 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S010CD

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14814 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S010D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	92	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14815 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S011A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	22	-	5.0	MG/KG

QUALIFIERS: C = C
J = ESTIMATED VALUE ND = NOT DETECTED
L = PRESENT BELOW STATED DETECTION LIMIT B = ALSO PRESENT IN BLANK
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14816 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S011B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	38	-	5.0	MG/KG

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB :EE-91-14817 MATRIX: SOLID
 SAMPLE ID CLIENT: P31-S011C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	94	-	5.0	MG/KG

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14818 MATRIX: SOLID
SAMPLE ID CLIENT: P31-S011D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	13	-	5.0	MG/KG

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101.524

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. Recoverable Petroleum Hydrocarbons	Batch QC	ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES,, RPD's ARE
CALCULATED DIRECTLY FROM THE RAW DATA.

3101075

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.524

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Petroleum Hydrocarbons	Batch QC	ND	130	120	94

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT
RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

9101.524

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101 505

(ng/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. Recoverable Petroleum Hydrocarbons				
	Batch QC	14	8.2	56.1
	Batch QC	63	71	11.0

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD's ARE
CALCULATED DIRECTLY FROM THE RAW DATA.

3101076

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.505

(mg/kg)

Parameter	B & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Petroleum Hydrocarbons					
	Batch QC	13	130	130	91.4
	Batch QC	ND	130	120	93.0

ND - NOT DETECTED

** - RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT
RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101.556

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. Recoverable Petroleum Hydrocarbons				
	Batch QC	19	23	17.1

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD'S ARE
CALCULATED DIRECTLY FROM THE RAW DATA.

3101077

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.556

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Petroleum Hydrocarbons					
	Batch QC	ND	130	120	85.9
	Batch QC	ND	1.3	1.4	105.0
	Batch QC	19	130	120	73.2

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT
RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

9101

TEST CODE : SPNPRG1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14486

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101078

TEST CODE : SPNPRG1

JOB NUMBER r9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14487

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001B

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND	-	1000
Toluene	ND	-	1000
Ethylbenzenc	ND	-	1000
Total Xylenes	ND	-	1000
1,2 - Dichlorobenzene	ND	-	1000
1,3 - Dichlorobenzene	ND	-	1000
1,4 - Dichlorobenzene	ND	-	1000
1,1 - dichloroethcne	ND	-	1000
Methylene Chloride	ND	-	1000
Trans-1,2, - Dichloroethene	ND	-	1000
1,1 - dichloroethana	ND	-	1000
1,1,1 - Trichloroethane	ND	-	1000
1,2 - Dichloroethane	ND	-	1000
Trichloroethene	ND	-	1000
Tetrachloroethenc	ND	-	1000
chlorobenzene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODB : SPNPRG1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14488

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>am.</u>
Benzene	ND		1000
Tolune	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethenc	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101079

TBST CODE : SPNPRG1

JOB NUMBER : 9101.505

Bcology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14489

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODEB :SPNPRG1

JOB NUMBER :9101505

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCHE 2

RESULTS IN VET WEIGHT

TBST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14490

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATBD DETECTION LIMIT

3101030

TEST CODE :SPNPRG1

JOB NUMBER r9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAHPLB ID LAB : BE-91-14491

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethane	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = BSTIUTED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIHIT

TEST CODB :SPNPRG1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BB-91-14492

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101081

TEST CODB : SPNPRG1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14493

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14494

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101082

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EB-91-14597

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14598

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101083

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14599

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003C

PARAMETER	RESULTS	a	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIHIT

9101.524

TEST CODE : SPNPRG1

JOB NUMBER t9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14600

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003D

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101034

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14601

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Hethylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TBST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TBST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14602

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004B

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND	-	1000
Toluene	ND	-	1000
Ethylbenzene	ND	-	1000
Total Xylenes	ND	-	1000
1,2 - Dichlorobenzene	ND	-	1000
1,3 - Dichlorobenzene	ND	-	1000
1,4 - Dichlorobenzene	ND	-	1000
1,1 - dichloroethene	ND	-	1000
Methylene Chloride	ND	-	1000
Trans-1,2, - Dichloroethene	ND	-	1000
1,1 - dichloroethane	ND	-	1000
1,1,1 - Trichloroethane	ND	-	1000
1,2 - Dichloroethane	ND	-	1000
Trichloroethene	ND	-	1000
Tetrachloroethene	ND	-	1000
chlorobenzene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101085

TEST CODE :SPNPRG1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14603

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>ONT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14604

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004D

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DBTECTION LIMIT

3101036

TEST CODE :SPNPRG1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14605

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Iiethylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RBSULTS IN WET WEIGHT

TBST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14606

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005B

<u>PARAMETER</u>	<u>RBSULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethenc	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethenc	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101087

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14607

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED ,DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : RE-91-14608

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14802

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14803

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethenc	ND		1000
1,1 - dichloroethanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14804

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006C

PARAHETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14805

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101090

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST METHOD : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14609

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....

QUALIFIERS: C = COHENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Biology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14610

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND	-	1000
Toluene	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethenc	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101091

TEST CODE :SPNPRG1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14611

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dlchloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14612

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101092

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14806

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND	-	1000
Toluene	ND	-	1000
Ethylbenzene	ND	-	1000
Total Xylenes	ND	-	1000
1,2 - Dichlorobenzene	ND	-	1000
1,3 - Dichlorobenzene	ND	-	1000
1,4 - Dichlorobenzene	ND	-	1000
1,1 - dichloroethene	ND	-	1000
Methylene Chloride	ND	-	1000
Trans-1,2, - Dichloroethene	ND	-	1000
1,1 - dichloroethane	ND	-	1000
1,1,1 - Trichloroethane	ND	-	1000
1,2 - Dichloroethane	ND	-	1000
Trichloroethene	ND	-	1000
Tetrachloroethene	ND	-	1000
chlorobenzene	ND	-	1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14807

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101093

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14808

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14809

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMIED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101034

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLS- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14613

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT .

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc. . .
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14614

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009B

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.524

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14615

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14616

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009D

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroathene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC UNITS : UG/KG

SAMPLE ID LAB : EE-91-14810 MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010A

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
-			
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14811

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethana	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethana	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101097

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAHPLB ID LAB : EE-91-14812

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TBST "E : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14813

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethana	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethana	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethana	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101038

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14814

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND	-	1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14815

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011A

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101099

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAHE : PNC PURGABLES- GC

UNITS : UG/KG

SAHPLE ID LAB : EE-91-14816

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011B

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Hethylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14817

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101100

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14818

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011D

PARAMETER	RESULTS	Q	QNT. LIMIT
-	-	-	-
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPRG1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK #1 MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND	-	1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethane	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethane	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

310110:

TEST CODE :SPNPRG1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK #2 MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER r9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PURGABLES- GC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PURGABLES- GC
SAMPLE ID LAB : METHOD BLANK

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF SOIL MATRIX SPIKE (MS)

9101.524

(ug/kg)

Parameter	B C B Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	20	20	100
Toluene		ND	20	19	95
Ethyl Benzene		ND	20	19	95
1,2-Dichlorobenzene		ND	20	17	85
1,3-Dichlorobenzene		ND	20	17	85
1,4-Dichlorobenzene		ND	20	17	85
1,1-Dichloroethene		ND	20	14	70
Methylene Chloride		ND	20	18	90
Trans-1,2-Dichloroethene		ND	20	18	90
1,1-Dichloroethane		ND	20	23	115
1,1,1-Trichloroethane		ND	20	21	105
1,2-Dichloroethane		ND	20	25	125
Trichloroethene		ND	20	23	115
Tetrachloroethane		ND	20	22	110

ND = NOT DETECTED

3101103

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF SOIL MATRIX SPIKE (MS)

9101.524

(ug/kg)

Parameter	E & E Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	20	22	110
Toluene		ND	20	21	105
Ethyl Benzene		ND	20	22	110
1,2-Dichlorobenzene		ND	20	18	90
1,3-Dichlorobenzene		ND	20	19	95
1,4-Dichlorobenzene		ND	20	19	95
1,1-Dichloroethene		ND	20	13	65
Methylene Chloride		ND	20	17	85
Trans-1,2-Dichloroethene		ND	20	17	85
1,1-Dichloroethane		ND	20	17	85
1,1,1-Trichloroethane		ND	20	20	100
1,2-Dichloroethane		ND	20	21	105
Trichloroethene		ND	20	21	105
Tetrachloroethene		ND	20	21	105

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY AND PRECISION:
 PERCENT RECOVERY OF SOIL MATRIX SPIKE (MS)

9101.524

(ug/kg)

Parameter	E & E Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	20	20	100
Toluene		ND	20	21	105
Ethyl Benzene		ND	20	21	105
1,2-Dichlorobenzene		ND	20	18	90
1,3-Dichlorobenzene		ND	20	18	90
1,4-Dichlorobenzene		ND	20	18	90
1,1-Dichloroethene		ND	20	15	75
Methylene Chloride		ND	20	20	100
Trans-1,2-Dichloroethene		ND	20	20	100
1,1-Dichloroethane		ND	20	21	105
1,1,1-Trichloroethane		ND	20	24	120
1,2-Dichloroethane		ND	20	22	110
Trichloroethene		ND	20	22	110
Tetrachloroethene		ND	20	21	105

ND = NOT DETECTED

3101104

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9101.524

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14597	96
	14598	95
	14599	94
	14600	91
	14601	86
	14602	a7
	14603	91
	14604	92
	14605	90
	14606	91
	14607	84
14608	83	
14609	78	
1,4-Dichlorobutane	14597	109
	14598	101
	14599	103
	14600	104
	14601	103
	14602	110
	14603	103
	14604	103
	14605	91
	14606	91
	14607	92
14608	92	
14609	90	

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9101.524

Compound	E & E Laboratory No. 91-	Percent <i>Recovery</i>
Trifluorotoluene	14610	75
	14611	91
	14612	86
	14613	90
	14614	90
	14615	103
	14616	140
	Method Blank #1	102
	Method Blank #2	100
1,4-Dichlorobutane	14610	92
	14611	90
	14612	101
	14613	96
	14614	105
	14615	99
	14616	118
	Method Blank #1	100
	Method Blank #2	100

3101105

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF SOIL MATRIX SPIKE (MS)

9101.505

(ug/kg)

Parameter	E & E Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	20	20	100
Toluene		ND	20	18	90
Ethyl Benzene		ND	20	18	90
1,2-Dichlorobenzene		ND	20	16	80
1,3-Dichlorobenzene		ND	20	18	90
1,4-Dichlorobenzene		ND	20	19	95
1,1-Dichloroethene		ND	20	22	110
Methylene Chloride		ND	20	17	85
Trans-1,2-Dichloroethene		ND	20	17	85
1,1-Dichloroethane		ND	20	21	105
1,1,1-Trichloroethane		ND	20	21	105
1,2-Dichloroethane		ND	20	21	105
Trichloroethcne		ND	20	19	95
Tetrachloroethane		ND	20	18	90

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9101.505

Compound	B L B Laboratory No. 91-	Percent <i>Recovery</i>
Trifluorotoluene	14486	96
	14487	99
	14488	80
	14489	96
	14490	106
	14491	116
	1449'2	114
	1449'3	117
	1449'4	111
	Method Blank	100
1,4-Dichlorobutane	14486	92
	14487	105
	14488	106
	14489	116
	14490	101
	14491	108
	14492	101
	14493	102
	14494	91
	Method Blank	100

3101106

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9101.556

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14802	87
	14803	93
	14804	85
	14805	89
	14806	83
	14807	84
	14808	86
	14809	74
	14810	75
	14811	77
	14812	74
	14813	70
	14814	80
	14815	70
	14816	81
	14817	88
	14818	102
	Method Blank	100
1,4-Dichlorobutane	14802	80
	14803	85
	14804	77
	14805	68
	14806	81
	14807	76
	14808	83
	14809	78
	14810	85
	14811	70
	14812	69
	14813	69
	14814	71
	14815	68
	14816	73
	14817	76
	14818	91
	Method Blank	100

TEST CODE :SPNPAH1

JOB NUMBER :9101.505

Bcology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14486

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	PRESENT	L	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : EE-91-14487
SAMPLE ID CLIENT: P31-S001B

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14488

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101108

TEST CODE : SPNPAH1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14489

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET UBI —

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14490

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101100

TEST CODE : SPNPAH1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14491

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASB I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BB-91-14492

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002B

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101110

TEST CODE : SPNPAH1

JOB NUMBER : 9101.505

Biology and Environment, Inc.
Analytical Services Center

CLIENT : JH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14493

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002C

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BB-91-14494

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101111

TEST CODE : SPNPAH1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14597

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER \$9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAE- LC

UNITS : UG/KG

SAMPLE ID LAB : BB-91-14598

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATBD DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER :9101.524

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAE - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14599

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B- = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : EE-91-14600
SAMPLE ID CLIENT: P31-S003D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101113

TEST CODE : SPNPAH1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAHB : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14601

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14602

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT

3101114

TEST CODE : SPNPAH1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAE - LC

UNITS : UG/KG

SAHPLB ID LAB : EE-91-14603

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : BE-91-14604
SAMPLE ID CLIENT: P31-S004D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = CO ——— ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

SAMPLE ID LAB : BE-91-14605

SAMPLE ID CLIENT: P31-S005A

UNITS : UG/KG

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14606

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101116

TEST CODE :SPNPAH1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC UNITS : UG/KG

SAMPLE ID LAB : EE-91-14607 MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TBST CODE : SPNPAH1

JOB NUMBER r9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14608

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101117

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14802

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PAE - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14803

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101118

TEST CODE :SPNPAH1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14804

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006C

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : BB-91-14805
SAMPLE ID CLIENT: P31-S006D

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	ND	-	.1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101110

TEST CODE :SPNPAH1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14609

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C • COMMENT ND • NOT DETECTED
 J • ESTIMATED VALUE B • ALSO PRESENT IN BLANK
 L • PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.524

Biology and Environment, Inc.
Analytical Services Center

CLIENT I UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14610

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

L = PRESENT BELOW STATBD DETECTION LIMIT

3101126

TEST CODE : SPNPAH1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14611

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007C

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER r9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14612

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101121

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAUPLE ID LAB : EE-91-14806

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14807

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008B

PARAMETER	RESULTS	Q	ONT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

.....
QUALIFIERS: C ■ COMMENT ND ■ NOT DETECTED
 J ■ ESTIMATED VALUE B ■ ALSO PRESENT IN BLANK
 L ■ PRESENT BELOW STATED DETECTION LIMIT

3101122

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14808

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : EE-91-14809
SAMPLE ID CLIENT: P31-S008D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = CO ——— ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DEIECTION LIMIT

3103123

TEST CODE : SPNPAE1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : EE-91-14613
SAMPLE ID CLIENT? P31-S009A

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	PRESENT	L	1000

.....
QUALIFIERS: C : COMMENT ND : NOT DETECTED
 J : ESTIMATED VALUE B : ALSO PRESENT IN BLANK
 L : PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET UBI —

TEST NAME : PNC PAH - LC

UNITS : UG/KG

WPLB ID LAB : HE-91-14614

MATRIX : SOLID

WPLB ID CLIENT: P31-S009B

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101124

TEST CODE :SPNPAH1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14615

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TBST CODE :SPNPAH1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC
SAMPLE ID LAB : EE-91-14616
SAMPLE ID CLIENT: P31-S009D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101125

TEST CODE :SPNPAH1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14810

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C : COMMENT ND : NOT DETECTED
 J : ESTIHATED VALUE B : ALSO PRESENT IN BLANK
 L : PRESENT BELOW STATED DETECTION LIMIT

3-1-10
12:00

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14811

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101120

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14812

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14813

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101127

TEST CODE : SPNPAB1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAB - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14814

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C * COMMENT ND * NOT DETECTED
 J * ESTIMATED VALUE B * ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14815

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101128

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14816

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

501110

TEST CODE :SPNPAH1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCE 2

RESULTS IN VET WEIGHT

TEST "E" : PNC PAH - LC
SAMPLE ID LAB : EE-91-14817
SAMPLE ID CLIENT: P31-S011C

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	ONT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101120

TEST CODE : SPNPAE1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAE - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14818

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK #1

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101130

TEST CODE : SPNPAE1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK #2

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C ■ COMMENT ND ■ NOT DETECTED
 J ■ ESTIMATED VALUE B ■ ALSO PRESENT IN BLANK
 L ■ PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1

JOB NUMBER 19101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK #3

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101131

TEST CODE :SPNPAH1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

QUALIFIERS: C = ∞ ——— ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT

3101132

TEST CODE :SPNPAH1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK #1

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	1000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT

TEST NAME : PNC PAH - LC WITS : UG/KG
SAMPLE ID LAB : HETHOD BLANK #2 MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Benzo-a-pyrene	ND		1000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101133

TEST CODE : WPNPAH1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCB '2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	ND	-	100

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.524

(ug)

Parameter	B Q B Laboratory No. 91-	Original Value	Amount Added	h u n t D e t e r m i n e d	Percent Recovery
Benzo(a)pyrene					
	14607 US	ND	50	24	48
	14614 MS	ND	50	46	92
	14616 US	ND	50	46	92

ND = NOT DETECTED

3101134

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.505

(ug)

Parameter	E & E Laboratory No. 91- Batch QC	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene		ND	50	43	86

ND - NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.556

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene					
	14804	ND	50	37	74
	14814	ND	50	49	98

ND = NOT DETECTED

3101135

TEST CODE : SPNPEL1

JOB NUMBER -9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14486

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>ONT. LIMIT</u>
Total as Trichlorophenol	2600	-	2000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14487

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101136

TEST CODE : SPNPHL1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14488

MATRIX : SOLID

SAMPLE ID CLIENT? P31-S001C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODB :SPNPHL1

JOB NUMBER :9101.505

Bcology and Environment, Inc.
Analytical Services Curter

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EB-91-14489

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101137

TEST CODE :SPNPHL1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14490

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001D

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND	-	2000

QUALIFIERS? C = ☉ ——— ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BB-91-14491

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101138

TEST CODE :SPNPHL1

JOB NUMBER :9101.505

Biology urd Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14492

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002B

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

11/1/11

TEST CODE : SPNPEL1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : KB-91-14493

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101136

TEST CODE :SPNPHL1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14494

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TBST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14597

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101140

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14598

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14599

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRBSENT BELOW STATED DETECTION LIMIT

3101141

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BAIW 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14600

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003D

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASB I BATCH 2
RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14601 MATRIX : SOLID
SAMPLE ID CLIENT: P31-S004A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT

3101142

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14602

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPEL1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14603

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BBLOV STATED DETECTION LIMIT

3101143

TEST CODE : SPNPHL1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14604

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004D

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14605

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101144

TEST CODE : SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : 33-91-14606

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005B

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER r9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14607

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005C

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101145

TEST CODE : SPNPHL1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14608

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

14608

TEST CODE :SPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14802

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>ONT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

L = PRESENT BELOW STATED DETECTION LIMIT

3101146

TEST CODE : SPNPBL1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14803

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006B

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER : 9101.556

Ecology and **Environment**, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14804

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIHIT

3101147

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : HE-91-14609

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101148

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14610

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : RE-91-14611

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101140

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14612

MATRIX : SOLID

SMPLB ID CLIENT: P31-S007D

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET **WEIGHT**

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14806

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101150

TEST CODE : SPNPBL1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14807

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C * COMMENT ND * NOT DETECTED
 J * ESTIMATED VALUE B * ALSO PRESENT IN BLANK
 L * PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14808

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101151

TEST CODE :SPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14809

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14613

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101152

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TBST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BB-91-14614

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

4/1/71

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC
SAMPLE ID LAB : EE-91-14615
SAMPLE ID CLIENT: P31-S009C

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101153

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Biology and Environment, Inc.
Analytical Services Canter

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14616

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14810

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010A

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101154

TEST CODE :SPNPBL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14811

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010B

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14812

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101155

TEST CODE :SPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14813

MATRIX : SOLID

SAHPLE ID CLIENT: P31-S010CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNPHL1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14814 MATRIX : SOLID
SAMPLE ID CLIENT: P31-S010D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101156

TEST CODE :SPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14815

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011A

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14816

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011B

PARAMETER	RESULTS	Q	ONT. LIMIT
-----	-----	-	-----
Total as Trichlorophenol	ND		2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101157

TEST CODE : SPNPBL1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14817

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14818

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = **ALSO PRESENT** IN BLANK
 L = PRESENT **BELOW** STATED DETBCTION **LIMIT**

3101158

TEST CODE SPNPHL1

JOB NUMBER 29101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK #1

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK #2

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trlchlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRBSNT BELOW STATED DETECTION LIMIT

3101153

TBST CODE :SPNPHL1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2

RESULTS IN WET VBIGET

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

4/1/01

TEST CODE : SPNPHL1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PHENOL - LC

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	2000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101160

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.524

(ug)

Parameter	E & E Laboratory No. 91 -	Original Value	Amount Added	Amount Determined	Percent Recovery
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2,4,6-Trichlorophenol

	Blank #1	ND	100	104	104
	Blank #2	ND	100	70	70

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.505

(ug)

Parameter	B 6 B Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol		ND	100	132	132

ND = NOT DETECTED

3101161

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.556

(ug)

Parameter	E & E Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol		ND	100	70	70

ND = NOT DETECTED

TEST CODE :SPNP&P1

JOB NUMBER :9101.505 .

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14486

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4DDB	ND		1000
Total PCBs	ND		So00

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101162

TEST CODE : SPNP&P1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14487

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TBST CODE : SPNP&P1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14488
SAMPLE ID CLIENT: P31-S001C

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101163

TEST CODE :SPNP&P1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14489

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Haptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER t9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14490

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S001D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101164

TEST CODE :SPNP&P1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14491

HATRIX : SOLID

SAMPLE ID CLIENT: P31-S002A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Haptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNP&P1

JOB NUMBER : 9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET UBI——

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14492

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Bndrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101165

TEST CODE :SPNP&P1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TBST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14493

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S002C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4p4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDB	ND	-	1000
Total PCBs	ND	-	5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : BE-91-14494
SAMPLE ID CLIENT: P31-S002D

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDE	ND	-	1000
Total PCBs	ND	-	5000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101166

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14597

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Haptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
494 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4DDE	ND	-	1000
Total PCBs	ND	-	5000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TBST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14S98

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S003B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDB	ND	-	1000
Total PCBs	ND	-	5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101167

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14599
SAMPLE ID CLIENT: P31-S003C

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Bndrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDE	ND	-	1000
Total PCBs	ND	-	5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14600
SAMPLE ID CLIENT: P31-S003D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIMIT

3101168

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14601

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>a</u>	<u>QNT. LIHIT</u>
Hiptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
494 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIHIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TBST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14602

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004B

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Haptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C - COMMENT ND - NOT DETECTED
 J - ESTIMATED VALUE B - ALSO PRESENT IN BLANK
 L - PRESENT BELOW STATED DETECTION LIMIT

3101160

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14603

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S004C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DELECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14604
SAMPLE ID CLIENT: P31-S004D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Beptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101170

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14605

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S005A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

SAMPLE ID LAB : EB-91-14606

SAMPLE ID CLIENT: P31-S005B

UNITS : UG/KG

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDE	ND	-	1000
Total PCBs	ND	-	5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14607
SAMPLE ID CLIENT: P31-S005C

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4DDE	ND	-	1000
Total PCBs	ND	-	5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TBST CODB : SPNP&P1

JOB NUMBER : 9101.524

Biology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASB I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14608
SAMPLE ID CLIENT: P31-S005D

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101172

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14802

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14803

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDE	ND	-	1000
Total PCBs	ND	-	5000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAHPLE ID LAB : EE-91-14804

MATRIX : SOLID

SAHPLE ID CLIENT: P31-S006C

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDE	ND	-	1000
Total PCBs	ND	-	5000

QUALIFIERS: C ■ COHENT ND ■ NOT DETECTED
 J ■ ESTIMATED VALUE B ■ ALSO PRESENT IN BLANK
 L ■ PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14805

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S006D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14609

UNITS : UG/KG
MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDE	ND	-	1000
Total PCBs	ND	-	5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNP&P1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : BE-91-14610
SAMPLE ID CLIENT: P31-S007B

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
494 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		S000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNP&P1

JOB NUMBER : 9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14611

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S007C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14612
SAMPLE ID CLIENT: P31-S007D

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14806

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPNP&P1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14807

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4DDE	ND	-	1000
Total PCBs	ND	-	5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101177

TEST CODE : SPNP&P1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14808

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S008C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14809 MATRIX : SOLID
SAMPLE ID CLIENT: P31-S008D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAHPLE ID LAB : BE-91-14613

MATRIX : SOLID

SAHPLE ID CLIENT: P31-S009A

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TBST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TBST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : BE-91-14614

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009B

<u>PARAMETER</u>	<u>RBSULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101178

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14615

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TBST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14616

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S009D

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14810

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010A

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : BE-91-14811
SAMPLE ID CLIENT: P31-S010B

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101181

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14812

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010C

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
-			
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASB I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : 83-91-14813

UNITS : UG/KG
MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010CD

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Haptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14814

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S010D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14815

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011A

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101183

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : EE-91-14816
SAMPLE ID CLIENT: P31-S011B

UNITS : UG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND	-	1000
Lindane	ND	-	1000
Aldrin	ND	-	1000
4,4 - DDT	ND	-	1000
Dieldrin	ND	-	1000
Endrin	ND	-	1000
Chlordane	ND	-	1000
4,4-DDE	ND	-	1000
Total PCBs	ND	-	5000

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EB-91-14817

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011C

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : EE-91-14818

MATRIX : SOLID

SAMPLE ID CLIENT: P31-S011D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TBST CODB :SPNP&P1

JOB NUMBER :9101.524

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN VET WEIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Bndrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		So00

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.505

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

RESULTS IN WET WBIGHT

TEST NAME : PNC PEST./PCB

UNITS : UG/KG

SAMPLE ID LAB : METHOD BLANK

MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Haptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BAICE 2

RESULTS IN WET WEIGHT

TEST NAME : PNC PEST./PCB
SAMPLE ID LAB : METHOD BLANK

UNITS : UG/KG
MATRIX : SOLID

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Haptachlor	ND	-	1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101186

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14605)

9101.524

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
(ug/kg)				
Heptachlor	ND	400	541	135
Lindane	ND	400	539	135
Aldrin	ND	400	576	144
4,4' -DDT	ND	1000	1280	128
Dieldrin	ND	1000	1442	144
Endrin	ND	1000	1578	158
PCB-1254	ND	5000	6039	121

ND = NOT DETECTED

**QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14615)**

9101.524

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
(ug/kg)				
Heptachlor	ND	400	429	107
Lindane	ND	400	439	110
Aldrin	ND	400	488	122
4,4'-DDT	ND	1000	1050	105
Dieldrin	ND	1000	1223	122
Endrin	ND	1000	1312	131
PCB-1254	ND	5000	6266	125

ND = NOT DETECTED

3101187

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14488)

9101.505

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
(ug/kg)				
Haptachlor	ND	400	450	113
Lindane	ND	400	433	108
Aldrin	ND	400	478	120
4,4'-DDT	ND	1000	1227	123
Dieldrin	ND	1000	1196	120
Endrin	ND	1000	1326	133
Chlordane	ND	- -	- -	NA
4,4'-DDE	ND	- -	- -	NA
PCB-1254	ND	5000	6507	130

ND ■ NOT DETECTED

NA ■ NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14807)

9101.556

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
(ug/kg)				
Heptachlor	ND	400	486	122
Lindane	ND	400	451	104
Aldrin	ND	400	512	128
4,4'-DDT	ND	1000	1282	128
Dieldrin	ND	1000	1286	129
Endrin	ND	1000	1319	132
PCB-1254	ND	5000	6799	136

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14817)

9101.556

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
(ug/kg)				
Heptachlor	ND	400	493	123
Lindane	ND	400	467	117
Aldrin	ND	400	518	130
4,4'-DDT	ND	1000	1306	131
Dieldrin	ND	1000	1302	130
Endrin	ND	1000	1336	134
PCB-1254	ND	5000	6579	132

ND = NOT DETECTED

G

APPENDIX G

**TEMPORARY MONITORING WELL
GROUNDWATER SAMPLING
ANALYTICAL SCREENING RESULTS**

MEMORANDUM

TO : John Barksdale
FROM : Gary Hahn *Gary Hahn*
DATE : July 15, 1991
SUBJECT: UH-8000 Pensacola Report
RE: 9101.564
CC: Lab File

Attached is the laboratory report of the analysis conducted on three samples received at the Analytical Services Center on June 29, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

MEMORANDUM

To: John Barksdale
FROM: Gary Hahn *Gary Hahn*
DATE: July 16, 1991
SUBJECT: UH-8000 Pensacola Report
RE: 9101.556
CC: Lab File

Attached is the laboratory report of the analysis conducted on nineteen samples received at the Analytical Services Center on June 28, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

3101191

Analysis as per Site QM
See Jack Miller

CHAIN-OF-CUSTODY RECORD

Project No: <u>W050</u>			Project Name: <u>NAS Pennsylvania</u>			Project Manager: <u>John Barkdale</u>			SCREENING METALS RESIDUAL PHOSPHORUS CUMULATIVE PAH'S/PCB'S CUMULATIVE VOC'S TRPH'S			REMARKS								
W000			SAMPLERS: (Signatures) <u>[Signatures]</u>			FIELD TEAM LEADER: <u>Jeff Lunsford</u>														
STATION NUMBER	DATE	TIME	SAMPLE TYPE			STATION LOCATION	NUMBER OF CONTAINERS													
			COMP	GRAB	AIR															
EXPECTED COMPOUNDS (Concentration)*																				
31	6-27	1615				Twooy Site 31	5	X	X	X	Y	X	123-332 VOA Lot# 5587KEFP-9X							
31	6-27	1700				Twooy Site 31	5	X	X	X	Y	Y	QC# 10353C							
													Literally Lot# 1092021							
													QC# 10230C							
													Metal Total Amber Lot# 1094012							
													QC# 10278C							
													Metal Total Amber Lot# 1038022 Lot# E							
													QC# 1092C							
													VOA: preserved w/ HCL <2 5587KEG-P							
													Metals: preserved w/ HNO ₃ <2 6623KEG-P							
													TRPH: preserved w/ H ₂ SO ₄ <2 6843KEG-P							
													All samples packed w/ ICE <4°							
Relinquished By: (Signature) <u>[Signature]</u>			Date/Time: <u>6/27/91 1800</u>			Received By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Ship Via: <u>Federal Express</u>		
Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			Relinquished By: (Signature)			Date/Time:			Received By: (Signature)			BL/Airbill Number: <u>0776546212</u>		
Relinquished By: (Signature) <u>Fed. Express</u>			Date/Time: <u>6-28-91/0910</u>			Received For Laboratory By: (Signature) <u>[Signature]</u>			Relinquished By: (Signature)			Date/Time:			Received For Laboratory By: (Signature)			Date: <u>6-27-91</u>		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
 *See CONCENTRATION RANGE on back of form.

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14817.03	P31-S011C	SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14818.01	P31-S011D	SPNPRG1	06/27/91		07/04/91
14818.02	P31-S011D	SPNTPH1	06/27/91		07/12/91
14818.03	P31-S011D	SPNMET1	06/27/91		07/02/91
		SPNP&P1	06/27/91		07/09/91
		SPNPAH1	06/27/91		07/10/91
		SPNPHL1	06/27/91		07/09/91
14819.01	P31-W004	WPNPRG1	06/27/91		07/05/91
14819.03	P31-GW004	WPNP&P1	06/27/91		07/09/91
		WPNPAH1	06/27/91		07/10/91
		WPNPHL1	06/27/91		07/09/91
14819.04	P31-GW004	WPNTPH1	06/27/91		07/01/91
14819.05	P31-W004	WPNMET1	06/27/91		07/02/51
14820.01	P31-GW009	WPNPRG1	06/27/91		07/05/91
14820.03	P31-GW009	WPNP&P1	06/27/91		07/09/91
		WPNPAH1	06/27/91		07/10/91
		WPNPHL1	06/27/91		07/09/91
14820.04	P31-GW009	WPNTPH1	06/27/91		07/01/91
14820.05	P31-GW009	WPNMET1	06/27/91		07/02/91

Bcology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATB SAMPLED	DATE EXTRACTED	DATE ANALYZED
14880.01	P31-GW005	WPNPRG1	06/28/91		07/05/91
14880.03	P31-GW005	WPNP&P1	06/28/91		07/04/91
		WPNPAH1	06/28/91		07/11/91
		WPNPHL1	06/28/91		07/10/91
14880.04	P31-GW005	WPNTPH1	06/28/91		07/01/91
14880.05	P31-GW005	WPNMET1	06/28/91		07/02/91
14881.01	P31-GW007	WPNPRG1	06/28/91		07/06/91
14881.03	P31-GW007	WPNP&P1	06/28/91		07/04/91
		WPNPAH1	06/28/91		07/11/91
		WPNPHL1	06/28/91		07/10/91
14881.04	P31-GW007	WPNTPH1	06/28/91		07/01/91
14881.05	P31-GW007	WPNMET1	06/28/91		07/02/91
14882.01	P31-GW007D	WPNPRG1	06/28/91		07/06/91
14882.03	P31-GW007D	WPNP&P1	06/28/91		07/04/91
		WPNPAH1	06/28/91		07/11/91
		WPNPHL1	06/28/91		07/10/91
14882.04	P31-GW007D	WPNTPH1	06/28/91		07/05/91
14882.05	P31-GW007D	WPNMET1	06/28/91		07/02/91

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB :EE-91-14819 MATRIX: WATER
 SAMPLE ID CLIENT: P31-GW004

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		60	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PEASB I BATCH 2
 SAMPLE ID LAB :EE-91-14880 MATRIX: WATER
 SAMPLE ID CLIENT: P31-GW005

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND	-	60	UG/L
Chromium	42		10	UG/L
Zinc	29		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	28		25	UG/L
Silver	ND		10	UG/L

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
 SAMPLE ID LAB :EE-91-14881 MATRIX: WATER
 SAMPLE ID CLIENT: P31-GW007

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND	-	60	UG/L
Chromium	32		10	UG/L
Zinc	88		20	UG/L
Lead	ND		40	UG/L
Cadmium	5.0		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
 SAMPLE ID LAB :EE-91-14882 MATRIX: WATER
 SAMPLE ID CLIENT: P31-GW007D

P-----	RESULTS	Q	QNT. LIMIT	UNITS
-----	-----	-	-----	-----
Arsenic	ND		60	UG/L
Chromium	33		10	UG/L
Zinc	88		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB : EE-91-14820 MATRIX: WATER
 SAMPLE ID CLIENT: P31-GW009

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		60	UG/L
Chromium	14		10	UG/L
Zinc	55		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

.....
 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	IUD		60	UG/L
Chromium	IUD		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOU STATBD DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
Arsenic	ND		60	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

QUALITY CONTROL FOR PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF WATER SAMPLES

9101.556

(ug/L)

Parameter	E & E Laboratory No. 91- 14819	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Chromium		ND	10	NC
Zinc		ND	ND	NC
Lead		ND	ND	NC
Cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, RPD'S ARE
CALCULATED DIRECTLY FROM THE RAV DATA.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.556

(ug/L)

Parameter	E & E Laboratory No. 91- 14819	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	2000	2000	100
Chromium		ND	200	220	110
Zinc		ND	500	510	102
Lead		ND	500	480	95
Cadmium		ND	50	52	105
Nickel		ND	500	480	97
Copper		ND	250	250	100
Silver		ND	50	50	100

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT
RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14819 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW004

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	1.0	MG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
 Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
 SAHPLE ID LAB :EE-91-14880 MATRIX: WATER
 SAHPLE ID CLIENT: P31-GW005

PARAMETER	RESULTS	Q.	QNT. LIMIT	UNITS
TRPH	ND		1.0	MG/L

 QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14881 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW007

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	1.0	MG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14882 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW007D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	1.0	MG/L

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14820 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW009

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND		1.0	MG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT
 NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>	<u>UNITS</u>
TRPH	ND	-	1.0	MG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	ND	-	1.0	MG/L

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED UATBR SAMPLES

9101.564

(mg/L)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Petroleum Hydrocarbons	Batch QC	ND	8.5	7.8	91.3

ND ■ NOT DETECTED

** ■ RECOVERY NOT DETERMINED BECAUSE SAMPLE AMOUNT IS FOUR OR MORE
TIMES GREATER THAN SPIKE AMOUNT.

NOTE: ALTHOUGH RESULTS ARE REPORTED AS ROUNDED VALUES, PERCENT
RECOVERIES ARE CALCULATED DIRECTLY FROM THE RAW DATA.

TEST CODE : WFNPRG1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
W P L E ID LAB : EE-91-14819 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW004

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethenc	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethane	ND		10
Tetrachloroethene	ND		10
Chlorobenzene	ND		10

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1

JOB NUMBER :9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14880 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW005

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10
Chlorobenzene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNPRG1

JOB NUMBER : 9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EB-91-14881 MATRIX: VATBR
SAMPLE ID CLIENT: P31-GW007

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10
Chlorobenzene	ND		10

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIUTED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101203

TEST CODE : WPNPRG1

JOB NUMBER : 9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14882 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW007D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10
Chlorobenzene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNPRG1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : BE-91-14820 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW009

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND		10
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Methylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethene	ND		10
Chlorobenzene	ND		10

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101204

TEST CODE :WPNPRG1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Benzene	ND	-	10
Toluene	ND	-	10
Ethylbenzene	ND	-	10
Total Xylenes	ND	-	10
1,2 - Dichlorobenzene	ND	-	10
1,3 - Dichlorobenzene	ND	-	10
1,4 - Dichlorobenzene	ND	-	10
1,1 - Dichloroethene	ND	-	10
Methylene Chloride	ND	-	10
Trans - 1,2 - Dichloroethene	ND	-	10
1,1 - Dichloroethane	ND	-	10
1,1,1 - Trichloroethane	ND	-	10
1,2 - Dichloroethane	ND	-	10
Trichloroethene	ND	-	10
Tetrachloroethene	ND	-	10
Chlorobenzene	ND	-	10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNPRG1

JOB NUMBER : 9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

TEST NAME : PNC PURGABLES- GC

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK

MATRIX: WATER

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Benzene	ND		10
Toluene	ND		10
Ethylbenzenc	ND		10
Total Xylenes	ND		10
1,2 - Dichlorobenzene	ND		10
1,3 - Dichlorobenzene	ND		10
1,4 - Dichlorobenzene	ND		10
1,1 - Dichloroethene	ND		10
Ifethylene Chloride	ND		10
Trans - 1,2 - Dichloroethene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroethane	ND		10
Trichloroethene	ND		10
Tetrachloroethenc	ND		10
Chlorobenzene	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101205

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF WATER MATRIX SPIKE (MS)
(Sample # Blank Spike)

9101.556

(ug/L)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	20	20	100
Toluene		ND	20	18	90
Ethyl Benzene		ND	20	18	90
1,2-Dichlorobenzene		ND	20	15	75
1,3-Dichlorobenzene		ND	20	16	80
1,4-Dichlorobenzene		ND	20	16	80
1,1-Dichloroethene		ND	20	13	65
Methylene Chloride		ND	20	16	80
Trans-1,2-Dichloroethene		ND	20	16	80
1,1-Dichloroethane		ND	20	14	70
1,1,1-Trichloroethane		ND	20	19	95
1,2-Dichloroethane		ND	20	19	95
Trichloroethene		ND	20	18	90
Tetrachloroethene		ND	20	16	80

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY AND PRECISION:
 PERCENT RECOVERY OF VATBR **MATRIX SPIKE (MS)**
 (Sample # Blank Spike)

9101.556

(ug/L)

Parameter .	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	20	20	100
Toluene		ND	20	18	90
Ethyl Benzene		ND	20	19	95
1,2-Dichlorobenzene		ND	20	18	90
1,3-Dichlorobenzene		ND	20	19	95
1,4-Dichlorobenzene		ND	20	19	95
1,1-Dichloroethene		ND	20	18	90
Methylene Chloride		ND	20	17	85
Trans-1,2-Dichloroethene		ND	20	18	90
1,1-Dichloroethane		ND	20	19	95
1,1,1-Trichloroethane		ND	20	22	110
1,2-Dichloroethane		ND	20	19	95
Trichloroethena		ND	20	20	100
Tetrachloroethene		ND	20	18	90

ND = NOT DETECTED

3101206

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9101.556

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14819	96
	14820	120
	Method Blank	100
1,4-Dichlorobutane	14819	82
	14820	120
	Method Blank	100

**QUALITY CONTROL FOR ACCURACY AND PRECISION:
 PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
 OF WATER MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)
 (Sample # 14880)**

9101.564

(ug/L)								
Parameter	Original Value	Amount Added		Amount Determined		Percent Recovery		RPD
		MS	MSD	MS	MSD	MS	MSD	
Benzene	ND	20	20	16	16	80	80	0
Toluene	ND	20	20	15	16	75	80	6.5
Ethyl Benzene	ND	20	20	15	16	75	80	6.5
1,2-Dichlorobenzene	ND	20	20	15	15	75	75	0
1,3-Dichlorobenzene	ND	20	20	14	15	70	75	6.9
1,4-Dichlorobenzene	ND	20	20	14	15	70	75	6.9
1,1-Dichloroethene	ND	20	20	9	11	45	55	20
Methylene Chloride	ND	20	20	16	18	80	90	5.9
Trans-1,2-Dichloroethene	ND	20	20	16	18	80	90	5.9
1,1-Dichloroethane	ND	20	20	17	19	85	95	11
1,1,1-Trichloroethane	ND	20	20	20	21	100	105	4.9
1,2-Dichloroethane	ND	20	20	22	21	110	105	4.7
Trichloroethene	ND	20	20	19	19	95	95	0
Tetrachloroethene	ND	20	20	16	17	80	85	6.1

These recoveries and RPDs are within E & E, Inc. limits.

ND = NOT DETECTED

3101207

QUALITY CONTROL FOR ACCURACY: PERCENT
RECOVERY OF SURROGATE SPIKES

9101.564

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14880	110
	14880 MS	*
	14880 MSD	
	14881	100
	14882	100
	Method Blank	100
1,4-Dichlorobutane	14880	100
	14880 MS	140
	14880 HSD	140
	14881	96
	14882	91
	Method Blank	100

* = Trifluorotoluene was not added to sample.

TEST CODE :WPNPAH1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-14819 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW004

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

3101208

TEST CODE :WPNPAH1

JOB NUMBER :9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-14880 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW005

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNPAH1

JOB NUMBER r9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-14881 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW007

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101209

TEST CODE :WPNPAH1

JOB NUMBER :9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-14882 MATRIX: WATER
SAHPLE ID CLIENT: P31-GW007D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	100

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPAH1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-14820 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW009

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101210

TEST CODE : WPNPAH1

JOB NUMBER : 9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Benzo-a-pyrene	ND		100

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.556

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene	Batch QC	ND	5.0	4.7	94

ND = NOT DETECTED

3101211.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.564

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene					
	Batch QC	ND	5.0	3.7	74
	Batch QC	ND	5.0	4.6	92

ND = NOT DETECTED

TEST CODE :WPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-14819 MATRIX: UATBR
SAMPLE ID CLIENT: P31-GW004

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIHIT</u>
Total as Trichlorophenol	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNPHE1

JOB NUMBER : 9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-14880 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW005

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	100

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1

JOB NUMBER :9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-14881 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW007

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNPHL1

JOB NUMBER : 9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-14882 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW007D

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1

JOB NUMBER :9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Total as Trichlorophenol	ND	-	100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BBLOV STATED DETECTION LIMIT

3101214

TEST CODE :WPNPHL1

JOB NUMBER :9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		100

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.564

(ug)

Parameter	E & E Laboratory		Original Value	Amount Added	Amount Determined	Percent Recovery
	No. 91- Blank	Spike				
2,4,6-Trichlorophenol	ND		100	111	111	

ND = NOT DETECTED

3101215

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.556

(ug)

Parameter	E & E Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol		ND	100	111	111

ND = NOT DETECTED

TEST CODE : WPNP&P1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-14819 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW004

PARAMETER	RESULTS	Q	QNT. LIMIT
Hcptachlor	ND	-	5.0
Lindane	ND	-	5.0
Aldrin	ND	-	5.0
4,4 - DDT	ND	-	5.0
Dieldrin	ND	-	5.0
Endrin	ND	-	5.0
Chlordane	ND	-	5.0
4,4-DDE	ND	-	5.0
Total PCBs	ND	-	10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101216

TEST CODE WPNP&P1

JOB NUMBER :9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EB-91-14880 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW005

PARAMETER	RESULTS	Q	QNT. LIMIT
-----	-----	-	-----
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
4,4-DDE	ND		5.0
Total PCBs	ND		10

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNP&P1

JOB NUMBER : 9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASB I BATCH 2
TBST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-14881 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW007

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND	-	5.0
Lindane	ND	-	5.0
Aldrin	ND	-	5.0
4,4 - DDT	ND	-	5.0
Dieldrin	ND	-	5.0
Endrin	ND	-	5.0
Chlordane	ND	-	5.0
4,4-DDE	ND	-	5.0
Total PCBs	ND	-	10

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101217

TEST CODE :WPNP&P1

JOB NUMBER :9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-14882 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW007D

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
494 - DDT	ND		5.0
Dieldrin	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
4,4-DDE	ND		5.0
Total PCBs	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNP&P1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : BE-91-14820 MATRIX: WATER
SAMPLE ID CLIENT: P31-GW009

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
494 - DDT	ND		5.0
Dieldrin	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
4,4DDB	ND		5.0
Total PCBs	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

3101218

TEST CODE : WPNP&P1

JOB NUMBER : 9101.556

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: WATER

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
4,4-DDE	ND		5.0
Total PCBs	ND		10

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : WPNP&P1

JOB NUMBER : 9101.564

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2

TEST NAME : PNC PEST./PCB

UNITS : UG/L

SAMPLE ID LAB : METHOD BLANK

MATRIX: VATBR

<u>PARAMETER</u>	<u>RESULTS</u>	<u>Q</u>	<u>QNT. LIMIT</u>
Eaptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
4,4 - DDT	ND		5.0
Dieldrin	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
4,4-DDE	ND		5.0
Total PCBs	ND		10

.....
QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

3101219

H

APPENDIX H
EXISTING PERMANENT MONITORING WELL
GROUNDWATER SAMPLING
ANALYTICAL RESULTS

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn *G. Hahn / TB*

DATE: June 10, 1991

SUBJECT: NASP Well Resampling

RE: 9100.973

Attached is the laboratory report of the analysis conducted on six samples received at the Analytical Services Cantor on April 26, 1991. Analysis was performed according to "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition, USEPA, 1986. USEPA Contract Laboratory Programs, Statement of Work for Organic Analysis, 2/88 and Statement of Work for Inorganic Analysis, 7/88.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of \$1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/dms
enclosure

Case Narrative

9100.973
NASP Well Resampling

Based on the amount of mass spectral information available, the GC/MS computer is not always able to supply three matches for the unknown.

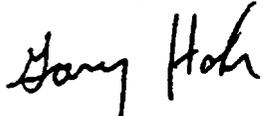
Volatile surrogate recovery criterion was not met for the method blank VBLKW2. Since surrogate recoveries for all associated samples were acceptable, reanalysis was not performed.

The EVALB pesticide standard analyzed at 17:23 on 05/22/91 contained carryover. It was immediately reanalyzed with acceptable results.

Continuing calibration blank (CCB) criterion was not met for the antimony CCB analyzed at 11:48 on 05/08/91. The instrument was resloped and an acceptable calibration standard and blank analyzed before proceeding with sample analysis.

The times listed on Form 14 for mercury and cyanide analysis are not real. The instruments used are not capable of recording time of analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



Gary Bahn
Manager - Analytical Services Center

GH/dms

E & E JOB NUMBER: 9100.973

<u>CLIENT SAMPLE ID</u>	<u>LAB SAMPLE ID</u>	<u>ID USED IN REPORT</u>
P-31-W-001	9240	WOOL
P-31-W-001D	9241	WOOLD
P-31-W-FB01	9242	WFB01
P-31-W-RB01	9243	WRB01
P-31-W-PB01	9244	WFB01
P-31-W-TB01	9245	WFB01
P-31-W-001-DISS	9258	WOOL DISS
P-31-W-001D DISS	9259	WOOLD DISS
P-31-W-FB01 DISS	9260	WFB01 DISS
P-31-W-RB01 DISS	9261	WRB01 DISS

Matrix (soil/water): WATER

Lab Sample ID: 9240

Level (low/med) : LOW

Date Received: 04/26/91

% Solids: 0.0

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum-	11100			P
17440-36-0	Antimony-	33.0	U		P
17440-38-2	Arsenic	2.0	U		F
17440-39-3	Barium	42.0	B		P
17440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	5.6			P
17440-70-2	Calcium	26200			P
17440-47-3	Chromium	29.1			P
17440-48-4	Cobalt	10.5	B		P
17440-50-8	Copper	7.5	B		P
17439-89-6	Iron	13000			P
17439-92-1	Lead	11.9	B	N*	F
17439-95-4	Magnesium	4720	B		P
17439-96-5	Manganese	747			P
17439-97-6	Mercury	0.30			CV
17440-02-0	Nickel	10.5	B		P
17440-09-7	Potassium	1320	B		P
17782-49-2	Selenium	2.0	U	W	F
17440-22-4	Silver	3.0	U		P
17440-23-5	Sodium	30500			P
17440-28-0	Thallium	2.0	U		F
17440-62-2	Vanadium:	12.5	B		P
17440-66-6	Zinc	72.3			P
	Cyanide	10.0	U		AS

Color Before: BR

Clarity Before: CL

Texture:

Color After: BR

Clarity After: C

Artifacts:

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W001
DISSOLVED

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water): WATER Lab Sample ID: 9258_____

Level (low/med) : LOW Date Received: 04/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum	183	B		P
17440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
17440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium	10400			P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	6.5	B		P
17440-50-8	Copper	13.3	B		P
17439-89-6	Iron	93.2	B		P
17439-92-1	Lead	1.0	U	WN*	F
7439-95-4	Magnesium	1360	B		P
7439-96-5	Manganese	2.0	B		P
7439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	2080	B		P
7782-49-2	Selenium	2.0	U	W	F
17440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	34900			P
7440-28-0	Thallium	2.0	U		F
17440-62-2	Vanadium	6.3	B		P
17440-66-6	Zinc	19.6	B		P
	Cyanide				NR

Handwritten signature/initials

Color Before: CL _____ Clarity Before: C _____ Texture: _____

Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W001D

Lab Name: ECOLOGY-AND-ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water): WATER Lab Sample ID: 9241_____

Level (low/med): LOW_ Date Received: 04/26/91

‡ Solids: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11400			P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	44.1	B		P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	44900			P
7440-47-3	Chromium	23.7			P
7440-48-4	Cobalt	15.7	B		P
7440-50-8	Copper	9.1	B		P
7439-89-6	Iron	13200			P
7439-92-1	Lead	11.2	B	WN*	F
7439-95-4	Magnesium	6260			P
7439-96-5	Manganese	612			P
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	10.3	B		P
7440-09-7	Potassium	1270	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	31700			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	17.9	B		P
7440-66-6	Zinc	91.8			P
	Cyanide	10.0	U		AS

Color Before: BR_____ Clarity Before: CL_____ Texture: _____

Color After: BR_____ Clarity After: C_____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W001D

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No. : WFB01

Matrix (soil/water) : WATER Lab Sample ID: 9259

Level (low/med): LOW Date Received: 04/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	216			P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium	10100			P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	9.7	B		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	122			P
7439-92-1	Lead	1.0	U	WN*	F
7439-95-4	Magnesium	1360	B		P
7439-96-5	Manganese	4.2	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	933	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	31700			P
7440-28-0	Thallium	2.0	U		F
17440-62-2	Vanadium	6.3	B		P
17440-66-6	Zinc	6.9	B		P
	Cyanide				NR

4/29/91

Color Before: CL _____ Clarity Before: C _____ Texture: _____

Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments :

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

WFB01

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water): WATER Lab Sample ID: 9242_____

Level (low/med): LOW Date Received: 04/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22.0	B		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	(Cadmium	3.0	U		P
7440-70-2	Calcium	95.0	U		P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	6.2	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	(Iron	26.1	B		P
7439-92-1	Lead	1.7	B	N*	F
17439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	1.1	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	521	B		P
7782-49-2	Selenium	2.0	U		F
17440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	22500			P
7440-28-0	(Thallium	2.0	U		F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	3.0	U		P
	Cyanide	10.0	U		AS

Calor Before: CL Clarity Before: C Texture: _____

Color After: CL Clarity After: C Artifacts: _____

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

Lab Name: ECOLOGY-AND-ENVIRONMENT Contract: _____

WFB01
DISSOLVED

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG NO.: WFB01_

Matrix (soil/water) : WATER Lab Sample ID: 9260_____

Level (low/med) : LOW Date Received: 04/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum	21.6	B		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium	95.0	U		P
7440-47-3	Chromium	9.0	U		P
17440-48-4	Cobalt	8.7	B		P
7440-50-8	Copper	2.2	B		P
17439-89-6	Iron	35.5	B		P
7439-92-1	Lead	5.0		N*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	2.4	B		P
17439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	263	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
17440-23-5	Sodium	321	B		P
17440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.4	B		P
17440-66-6	Zinc	3.5	B		P
	Cyanide				NR

AK 6/5/91

Color Before: CL _____ Clarity Before: C _____ Texture: _____

Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

WPB01

Lab Name: ECOLOGY-AND-ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.: 9100.973 SAS No.: _____ SDG No. : WFB01_

Matrix (soil/water): WATER Lab Sample ID: 9244_____

Level (low/med) : Low— Date Received: 04/26/91

% Solids: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum	33.6	B		P
17440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	101	B		P
7440-47-3	Chromium	9.0	U		P
17440-48-4	Cobalt	9.6	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	30.6	B		P
7439-92-1	Lead	1.0	U	WN*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	1.6	B		P
17439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	263	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	188	B		P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.7	B		P
17440-66-6	Zinc	3.6	B		P
	Cyanide	10.0	U		AS

Color Before: CL_____ Clarity Before: C_____ Texture: _____

Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments :

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WRBO1

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water): WATER Lab Sample ID: 9243_____

Level (low/med): LOW Date Received: 04/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.4	B		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	5.0	U		P
17440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	102	B		P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	5.0	U		P
17440-50-8	Copper	2.0	U		P
17439-89-6	Iron	46.0	B		P
7439-92-1	Lead	6.4		N*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	1.3	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	401	B		P
17782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
17440-23-5	Sodium	298	B		P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	4.0	B		P
17440-66-6	Zinc	9.1	B		P
	Cyanide	10.0	U		AS

Color Before: CL Clarity Before: C Texture: _____

Color After: CL Clarity After: C Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

WRB01
DISSOLVED

Lab Name: **ECOLOGY-AND-ENVIRONMENT** Contract: _____

Lab Code: **EANDE** Case No.: **9100.973** SAS No.: _____ SDG No.: **WFB01**

Matrix (soil/water): **WATER** Lab Sample ID: **9261**

Level (low/med): **LOW** Date Received: **04/26/91**

§ Solids: **0.0**

Concentration Units (ug/L or mg/kg dry weight): **UG/L**

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum	35.6	B		P
17440-36-0	Antimony	33.0	U		P
17440-38-2	Arsenic	2.0	U		F
17440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	95.0	U		P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	9.3	B		P
17440-50-8	Copper	4.7	B		P
17439-89-6	Iron	78.1	B		P
7439-92-1	Lead	2.7	B	WN*	F
17439-95-4	Magnesium	108	U		P
17439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
17440-09-7	Potassium	263	U		P
7782-49-2	Selenium	2.0	U		F
17440-22-4	Silver	3.0	U		P
17440-23-5	Sodium	517	B		P
17440-28-0	Thallium	2.0	U		F
17440-62-2	Vanadium	6.8	B		P
17440-66-6	Zinc	7.2	B		P
	Cyanide				NR

gjk 4/29/91

Color Before: CL _____ Clarity Before: C _____ Texture: _____

Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ECOLOGY_AND_ENVIRONMENT__

Contract: _____

WFB01 S
DISSOLVED

Lab Code: EANDE_

Case No.: 9100.973

SAS NO.: _____

SDG No.: WFB01_

Matrix: WATER_____

Level (low/med) : _LOW_

‡ Solids for Sample: -0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury (Nickel,	75-125	1.0100-	0.2000 U	1.00	101.0		CV
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Cyanide							NR

Comments :

BAK/991

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ECOLOGY-AND-ENVIRONMENT

Contract: _____

WRB01 S

Lab Code: EANDE

Case No.: 9100.973

SAS No.: _____

SDG No. : WFB01

Matrix: WATER

Level (low/med) : LOW

% Solids for Sample: -0.0

concentration Units (ug/L or mg/kg dry weight) : UG/L

Analyte	control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1987.6000		29.3780	B	2000.00	97.9		P
Antimony	75-125	499.5100		33.0000	U	500.00	99.9		P
Arsenic	75-125	36.4900		2.0000	U	40.00	91.2		F
Barium	75-125	2070.2000		5.0000	U	2000.00	103.5		P
Beryllium	75-125	53.2880		1.0000	U	50.00	106.6		P
Cadmium	75-125	50.1140		3.0000	U	50.00	100.2		P
Calcium									NR
Chromium	75-125	207.3600		9.0000	U	200.00	102.7		P
Cobalt	75-125	521.9200		5.0000	U				
Copper	75-125	253.8400		2.0000	U	250.00	101.5		P
Iron	75-125	1190.4000		46.0210	B	1000.00	114.4		P
Lead	75-125	18.3200		6.4300		20.00	59.5	N	F
Magnesium									NR
Manganese	75-125	513.6100		1.2800	B	500.00	102.5		P
Mercury									NR
Nickel	75-125	513.7400		8.0000	U	500.00	102.7		P
Potassium									NR
Selenium	75-125	8.0400		2.0000	U	10.00	80.4		F
Silver	75-125	51.3550		3.0000	U	50.00	102.7		P
Sodium									NR
Thallium	75-125	51.7500		2.0000	U	50.00	103.5		F
Vanadium	75-125	512.9800		4.0450	B	500.00	101.8		P
Zinc	75-125	521.7300		9.0640	B	500.00	102.5		P
Cyanide									NR

Comments :

U.S. EPA - CLP

9

ICP SERIAL DILUTION

EPA SAMPLE NO.

W001 L

Lab Name: ECOLOGY-AND-ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water) : WATER Level (low/med) : LOW_

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	11081.00		11252.50		1.5		P
Antimony	33.00	U	165.00	U			P
Arsenic							
Barium	41.96	B	39.28	B	6.4		P
Beryllium	1.00	U	5.00	U			P
Cadmium	5.61		15.00	U	100.0		P
Calcium	26222.00		27520.50		5.0		P
Chromium	29.13		45.00	U	100.0		P
Cobalt	10.48	B	47.30	B	351.3		P
Copper	7.53	B	16.41	B	117.9		P
Iron	13013.00		13711.50		5.4		P
Lead							
Magnesium	4723.50	B	4781.40	B	1.2		P
Manganese	746.57		795.20		6.5		P
Mercury							
Nickel	10.54	B	40.00	U	100.0		P
Potassium	1323.80	B	1844.60	B	39.3		P
Selenium							
Silver	3.00	U	15.00	U			P
Sodium	30543.00		31502.00		3.1		P
Thallium							
Vanadium	12.48	B	40.93	B	228.0		P
Zinc	72.34		77.54	B	7.2		P

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

WFB01 D
DISSOLVED

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum						NR
Antimony						NR
Arsenic						NR
Barium						NR
Beryllium						NR
Cadmium						NR
Calcium						NR
Chromium						NR
Cobalt						NR
Copper						NR
Iron						NR
Lead						NR
Magnesium						NR
Manganese						NR
Mercury		0.2000 U	0.2000 U			CV
Nickel						NR
Potassium						NR
Selenium						NR
Silver						NR
Sodium						NR
Thallium						NR
Vanadium						NR
Zinc						NR
Cyanide						NR

AK 6/6/91

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6
DUPLICATES

EPA SAMPLE NO.

WRB01 D

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum		29.3780 B	37.1090 B	23.3		P
Antimony		33.0000 U	33.0000 U			P
Arsenic		2.0000 U	2.0000 U			F
Barium		5.0000 U	5.0000 U			P
Beryllium		1.0000 U	1.0000 U			P
Cadmium		3.0000 U	3.0000 U			P
Calcium		101.9500 B	95.0000 U	200.0		P
Chromium		9.0000 U	9.0000 U			P
Cobalt		5.0000 U	7.3740 B	200.0		P
Copper		2.0000 U	2.0000 U			P
Iron		46.0210 B	57.8170 B	22.7		P
Lead	3.0	6.4300	1.0000 U	200.0	*	F
Magnesium		108.0000 U	108.0000 U			P
Manganese		1.2800 B	1.5530 B	19.3		P
Mercury						NR
Nickel		8.0000 U	8.0000 U			P
Potassium		401.4800 B	263.0000 U	200.0		P
Selenium		2.0000 U	2.0000 U			F
silver		3.0000 U	3.0000 U			P
Sodium		297.7800 B	476.4400 B	46.2		P
(Thallium)		2.0000 U	2.0000 U			F
Vanadium		4.0450 B	4.2480 B	4.9		P
Zinc		9.0640 B	5.3320 B	51.8		P
Cyanide						NR

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

WPB01 D

Lab Name: ECOLOGY-AND-ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water) : WATER Level (low/med) : -LOW-

% Solids for Sample: __0.0 % Solids for Duplicate: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum-								NR
Antimony-								NR
Arsenic —								NR
Barium —								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium-								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide		10.0000	U	10.0000	U			AS

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W001

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water): WATER Lab Sample ID: 9240_____

Level (low/med): LOW Date Received: 04/26/91

‡ Solids: 0.0

concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100	-		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	42.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.6			P
7440-70-2	Calcium	26200			P
7440-47-3	Chromium	29.1			P
7440-48-4	Cobalt	10.5	B		P
17440-50-8	Copper	7.5	B		P
7439-89-6	Iron	13000			P
17439-92-1	Lead	11.9	B	N*	F
7439-95-4	Magnesium	4720	B		P
7439-96-5	Manganese	747			P
7439-97-6	Mercury	0.30			CV
7440-02-0	Nickel	10.5	B		P
7440-09-7	Potassium	1320	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	3.0	U		P
17440-23-5	Sodium	30500			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	12.5	B		P
7440-66-6	Zinc	72.3			P
	Cyanide	10.0	U		AS

Color Before? B R _____ Clarity Before: CL _____ Texture: _____

Color After: BR _____ Clarity After: C _____ Artifacts: _____

Comments :

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W001
DISSOLVED

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____

Lab Code: —DE— Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Lab Sample ID: 9258

Level (low/med): LOW Date Received: 04/26/91

* Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	183	B		P
17440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	10400			P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	13.3	B		P
7439-89-6	Iron	93.2	B		P
7439-92-1	Lead	1.0	U	WN*	F
7439-95-4	Magnesium	1360	B		P
7439-96-5	Manganese	2.0	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	2080	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	34900			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	6.3	B		P
7440-66-6	Zinc	19.6	B		P
	Cyanide				NR

Handwritten signature/initials

Color Before: CL Clarity Before: C Texture: _____

Color After: CL Clarity After: C Artifacts: _____

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

W001D

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Lab Sample ID: 9242

Level (low/med): LOW Date Received: 04/26/91

‡ Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11400			P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
7440-39-3	Barium	44.1	B		P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	44900			P
7440-47-3	Chromium	23.7			P
7440-48-4	Cobalt	15.7	B		P
7440-50-8	Copper	9.1	B		P
7439-89-6	Iron	13200			P
7439-92-1	Lead	11.2	B	WN*	F
7439-95-4	Magnesium	6260			P
7439-96-5	Manganese	612			P
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	10.3	B		P
7440-09-7	Potassium	1270	B		P
7782-49-2	Selenium	2.0	U	W	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	31700			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	17.9	B		P
7440-66-6	Zinc	91.8			P
	Cyanide	10.0	U		AS

Color Before: BR Clarity Before: CL Texture: _____

Color After: BR Clarity After: C Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W001D

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Lab Sample ID: 9259

Level (low/med): LOW Date Received: 04/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	216			P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	9.7	B		P
7440-50-8	Copper	3.0	B		P
17439-89-6	Iron	122			P
7439-92-1	Lead	1.0	U	WN*	P
7439-95-4	Magnesium	1360	B		P
7439-96-5	Manganese	4.2	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
17440-09-7	Potassium	933	B		P
7782-49-2	Selenium	2.0	U	W	P
7440-22-4	Silver	3.0	U		P
17440-23-5	Sodium	31700			P
17440-28-0	Thallium	2.0	U		P
17440-62-2	Vanadium	6.3	B		P
17440-66-6	Zinc	6.9	B		P
	Cyanide				NR

Color Before: CL Clarity Before: C Texture: _____

Color After: CL Clarity After: C Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WFB01

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE__ Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01__

Matrix (soil/water): WATER Lab Sample ID: 9242_____

Level (low/med): LOW__ Date Received: 04/26/91

* Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L__

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22.0	B		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	95.0	U		P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	6.2	B		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	26.1	B		P
7439-92-1	Lead	1.7	B	N*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	1.1	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	521	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	22500			P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	4.0	U		P
7440-66-6	Zinc	3.0	U		P
	Cyanide	10.0	U		AS

Color Before: CL_____ Clarity Before: C_____ Texture: _____

Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

WFB01
DISSOLVED

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract : _____

Lab Code: EANDE Care No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water) : WATER Lab Sample ID: 9260_____

Level (low/med): LOW Date Received: 04/26/91

‡ Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): WG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21.6	B		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
17440-39-3	Barium	5.0	U		P
17440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium	95.0	U		P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	8.7	B		P
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron	35.5	B		P
7439-92-1	Lead	5.0		N*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	2.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
17440-09-7	Potassium	263	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	321	B		P
17440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	5.4	B		P
7440-66-6	Zinc	3.5	B		P
	Cyanide				NR

Handwritten signature/initials

Color Before: CL _____ clarity Before: C _____ Texture: _____

Color After: CL _____ clarity After: C _____ Artifacts: _____

Comments :

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WPB01

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water): WATER Lab Sample ID: 9244_____

Level (low/med): LOW Date Received: 04/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.6	B		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	101	B		P
17440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	9.6	B		P
17440-50-8	Copper	2.0	U		P
7439-89-6	Iron	30.6	B		P
7439-92-1	Lead	1.0	U	WN*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	1.6	B		P
7439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	263	U		P
7782-49-2	Selenium	2.0	U		F
17440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	188	B		P
17440-28-0	Thallium	2.0	U		F
17440-62-2	Vanadium	5.7	B		P
7440-66-6	Zinc	3.6	B		P
	Cyanide	10.0	U		AS

Color Before: CL _____ Clarity Before: C _____ Texture: _____

Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WRB01

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Lab Sample ID: 9243 _____

Level (low/med): LOW Date Received: 04/26/91

* Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.4	B		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	102	B		P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	46.0	B		P
7439-92-1	Lead	6.4		N*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	1.3	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	401	B		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	298	B		P
7440-28-0	Thallium	2.0	U	W	F
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc	9.1	B		P
	Cyanide	10.0	U		AS

Color Before: CL _____ Clarity Before: C _____ Texture: _____

Color After: CL _____ Clarity After: C _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WRB01
DISOLVED

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water): WATER Lab Sample ID: 9261_____

Level (low/med): LOW Date Received: 04/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35.6	B		P
7440-36-0	Antimony	33.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	5.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	95.0	U		P
7440-47-3	Chromium	9.0	U		P
7440-48-4	Cobalt	9.3	B		P
7440-50-8	Copper	4.7	B		P
7439-69-6	Iron	78.1	B		P
7439-92-1	Lead	2.7	B	WN*	F
7439-95-4	Magnesium	108	U		P
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	263	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	517	B		P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	6.8	B		P
7440-66-6	Zinc	7.2	B		P
	Cyanide				NR

Handwritten signature/initials

Color Before: CL Clarity Before: C Texture: _____

Color After: CL Clarity After: C Artifacts: _____

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT

Contract: _____

Lab code: =DE-

Case No.: 9100.973 SAS No.: _____

SDG No.: WFB01

Initial Calibration Source: EPA-LV/NBS

Continuing Calibration Source: VHG/P-E

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum	2010.0	1997.70	-99.4	500.0	527.77	105.6	521.64	104.4	F
Antimony	978.0	1032.00	105.5	1000.0	1082.90	108.3	999.03	99.9	P
Arsenic	50.0	45.07	90.1	50.0	46.11	92.2	49.94	99.9	F
Barium	1960.0	1940.30	99.0	500.0	532.39	106.5	485.25	97.1	P
Beryllium	483.0	496.33	102.8	500.0	517.49	103.5	497.82	99.6	P
Cadmium	502.0	481.71	96.0	500.0	520.19	104.0	494.49	98.9	P
Calcium	48700.0	51545.00	105.8	20000.0	21938.00	109.7	20886.00	104.4	P
Chromium	510.0	482.06	94.5	500.0	531.73	106.3	490.85	98.2	P
Cobalt	502.0	485.39	96.7	500.0	522.58	104.5	488.71	97.7	P
Copper	515.0	490.33	95.2	500.0	492.31	98.5	470.76	94.2	P
Iron	3040.0	1959.70	96.1	500.0	532.20	106.4	493.90	98.8	P
Lead	20.0	20.02	100.1	15.0	14.14	94.3	14.46	96.4	F
Magnesium	24600.0	25547.00	103.8	20000.0	21662.00	108.3	20593.00	103.0	P
Manganese	504.0	481.47	95.5	500.0	507.95	101.6	480.45	96.1	P
Mercury	4.9	4.781	97.6	1.0	0.92	92.0	0.97	97.0	CV
Nickel	480.0	470.00	97.9	500.0	510.28	102.1	477.22	95.4	P
Potassium	49000.0	50632.00	103.3	20000.0	21253.00	106.3	20340.00	101.7	P
Selenium	20.0	18.90	94.5	50.0	48.92	97.8	49.40	98.8	F
Silver	500.0	459.91	92.0	500.0	494.29	98.9	482.41	96.5	P
Sodium	49600.0	50938.00	102.7	20000.0	20717.00	103.6	19965.00	99.8	P
Thallium	50.0	50.92	101.8	50.0	54.26	108.5	52.35	104.7	F
Vanadium	488.0	489.06	100.2	500.0	534.03	106.8	505.81	101.2	P
Zinc	3100.0	2901.40	93.6	500.0	515.04	103.0	496.53	99.3	P
Cyanide	95.4	93.80	98.3	100.0	105.60	105.6			AS
				95.4		110.7			

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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6
 DUPLICATES

EPA SAMPLE NO.

WFB01 D
 DISSOLVED

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Level (low/med): LOW

* Solids for Sample: 0.0 * Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum						NR
Antimony						NR
Arsenic						NR
Barium						NR
Beryllium						NR
Cadmium						NR
Calcium						NR
Chromium						NR
Cobalt						NR
Copper						NR
Iron						NR
Lead						NR
Magnesium						NR
Manganese						NR
Mercury		0.2000 U	0.2000 U			CV
Nickel						NR
Potassium						NR
Selenium						NR
Silver						NR
Sodium						NR
Thallium						NR
Vanadium						NR
Zinc						NR
Cyanide						NR

Handwritten signature/initials

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

WFB01 D

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____

Lab code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Level (low/med): LOW

8 Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum						NR
Antimony						NR
Arsenic						NR
Barium						NR
Beryllium						NR
Cadmium						NR
Calcium						NR
Chromium						NR
Cobalt						NR
Copper						NR
Iron						NR
Lead						NR
Magnesium						NR
Manganese						NR
Mercury						NR
Nickel						NR
Potassium						NR
Selenium						NR
Silver						NR
Sodium						NR
Thallium						NR
Vanadium						NR
Zinc						NR
Cyanide		10.0000 U	10.0000 U			AS

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6
DUPLICATES

EPA SAMPLE NO.

WRB01 D

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Matrix (soil/water): WATER Level (low/med): LOW

‡ Solids for Sample: 0.0 ‡ Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum		29.3780 B	37.1090 B	23.3		P
Antimony		33.0000 U	33.0000 U			P
Arsenic		2.0000 U	2.0000 U			F
Barium		5.0000 U	5.0000 U			P
Beryllium		1.0000 U				P
Cadmium		3.0000 U				P
Calcium		101.9500 E		200.0		P
Chromium		9.0000 U				P
Cobalt		5.0000 U		200.0		P
Copper		2.0000 U				P
Iron		46.0210 B		22.7		P
Lead	3.0	6.4300 U		200.0	*	F
Magnesium		108.0000 U				P
Manganese		1.2800 B		1-49.3		P
Mercury						NR
Nickel		0.0000 U				P
Potassium		401.4800 B	263.0000 U	200.0		P
Selenium		2.0000 U	2.0000 U			F
Silver		3.0000 U	3.0000 U			P
Sodium		297.7800 B	476.4400 B	46.2		P
Thallium		8.0000 U				F
Vanadium		4.0450 B		4.9		P
Zinc		9.0640 B		51.8		P
Cyanide						NR

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SA
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ECOLOGY AND ENVIRONMENT

Contract: _____

WFB01 S
Result

Lab Code: EANDE

Case No.: 9100.973

SAS No.: _____

SDG No.: WFB01

Matrix: WATER

Level (low/med): LOW

* solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury	75-125	1.0100	0.2000 U	1.00	101.0		CV
Nickel							NR
Potassium							NR
Selenium							NR
silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Cyanide							NR

Comments:

BAK/S91

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ECOLOGY AND ENVIRONMENT

Contract: _____

WRB01 S

Lab Code: EANDE

Case No.: 9100.973

SAS No.: _____

SDG No.: WFB01

Matrix: WATER

Level (low/med) = LOW

* Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	MI
Aluminum	75-125	1987.6000		29.3780	B	2000.00	97.9		P
Antimony	75-125	499.5100		33.0000	U	500.00	99.9		P
Arsenic	75-125	36.4900		2.0000	U	40.00	91.2		F
Barium	75-125	2070.2000		5.0000	U	2000.00	103.5		P
Beryllium	75-125	53.2880		1.0000	U	50.00	106.6		P
Cadmium	75-125	50.1140		3.0000	U	50.00	100.2		P
Calcium									NR
Chromium	75-125	207.3600		9.0000	U	200.00	103.7		P
Cobalt	75-125	521.9200		5.0000	U	500.00	104.4		P
Copper	75-125	253.8400		2.0000	U	250.00	101.5		P
Iron	75-125	1190.4000		46.0210	B	1000.00	114.4		P
Lead	75-125	18.3200		6.4300		20.00	59.5	N	F
Magnesium									NR
Manganese	75-125	513.6100		1.2800	B	500.00	102.5		P
Mercury									NR
Nickel	75-125	513.7400		8.0000	U	500.00	102.7		P
Potassium									NR
Selenium	75-125	8.0400		2.0000	U	10.00	80.4		F
Silver	75-125	51.3550		3.0000	U	50.00	102.7		P
Sodium									NR
Thallium	75-125	51.7500		2.0000	U	50.00	103.5		F
Vanadium	75-125	512.9800		4.0450	B	500.00	101.8		P
Zinc	75-125	521.7300		9.0640	B	500.00	102.5		P
Cyanide									NR

Comments:

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LABORATORY CONTROL SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__

Contract: _____

Lab code: EANDE__

Case No.: 9100.973

SAS No.: _____

SDG No.: WFB01__

Solid LCS Source: _____

Aqueous LCS source: VHG/P-E_____

Analyte	Aqueous (ug/L)			Solid (mg/kg)				%R
	True	Found	%R	True	Found	C	Limits	
Aluminum	1000.0	1025.50	102.6					
Antimony	1000.0	1106.40	110.6					
Arsenic	100.0	88.80	88.8					
Barium	1000.0	1032.20	103.2					
Beryllium	1000.0	1063.50	106.4					
Cadmium	1000.0	1035.70	103.6					
Calcium	1000.0	1108.00	110.8					
Chromium	1000.0	987.30	98.7					
Cobalt	1000.0	1021.50	102.2					
Copper	1000.0	982.90	98.3					
Iron	1000.0	1073.20	107.3					
Lead	50.0	49.40	98.8					
Magnesium	1000.0	1061.80	106.2					
Manganese	1000.0	1024.40	102.4					
Mercury								
Nickel	1000.0	1015.20	101.5					
Potassium	10000.0	10428.00	104.3					
Selenium	50.0	46.00	92.0					
Silver	1000.0	956.00	95.6					
Sodium	1000.0	1116.30	111.6					
Thallium	100.0	99.00	99.0					
Vanadium	1000.0	1026.10	102.6					
Zinc	1000.0	1054.20	105.4					
Cyanide								

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CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY AND ENVIRONMENT

Contract: _____

Lab Code: EANDE

Case No.: 9100.973

SAS No.: _____

SDG No.: WFB01

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum				400.0	465.91	116.5	446.08	111.5
Antimony				120.0	143.58	119.7	126.82	105.7
Arsenic	10.0	10.33	103.3					
Barium								
Beryllium				10.0	11.39	113.9	11.27	112.7
Cadmium				10.0	12.24	122.4	12.14	121.4
Calcium								
Chromium				20.0	32.78	163.9	31.19	156.0
Cobalt				104.0	105.80	101.7	119.15	114.6
Copper				49.7	58.04	116.8	58.94	118.6
Iron								
Lead	3.0	5.25	175.0					
Magnesium								
Manganese				31.0	34.62	111.7	34.89	112.5
Mercury								
Nickel				79.1	81.09	102.5	80.35	101.6
Potassium								
Selenium	5.0	5.04	100.8					
Silver				26.0	22.73	87.4	22.47	86.4
Sodium								
Thallium	10.0	12.46	124.6					
Vanadium				100.0	109.30	109.3	114.56	114.6
Zinc				40.0	55.21	138.0	58.56	146.4

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ICP SERIAL DILUTION

EPA SAMPLE NO.

W001 L

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract : _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

Matrix (soil/water) : WATER Level (low/med) : LOW—

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	Difference	Q	M
Aluminum	11081.00		11252.50		1.5		P
Antimony	33.00	U	165.00	U			P
Arsenic							
Barium	41.96	B	39.28	B	6.4		P
Beryllium	1.00	U	5.00	U			P
Cadmium	5.61		15.00	U	100.0		P
Calcium	26222.00		27520.50		5.0		P
Chromium	29.13		45.00	U	100.0		P
Cobalt	10.48	B	47.30	B	351.3		P
Copper	7.53	B	16.41	B	117.9		P
Iron	13013.00		13711.50		5.4		P
Lead							
Magnesium	4723.50	B	4781.40	B	1.2		P
Manganese	746.57		795.20		6.5		P
Mercury							
Nickel	10.54	B	40.00	U	100.0		P
Potassium	1323.80	B	1844.60	B	39.3		P
Selenium							
Silver	3.00	U	15.00	U			P
Sodium	30543.00		31502.00		3.1		P
Thallium							
Vanadium	12.48	B	40.93	B	228.0		P
Zinc	72.34		77.54	B	7.2		P

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4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9100.973 SAS No: _____ SDG No.: WFB01_
 ICP ID Number: JY _____ ICS Source: PERKIN-ELMER

Concentration Units: ug/L

Analyte	True		Initial Pound			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	499810	487706	466290	464090.0	95.2	447600	447320.0	91.7
Antimony	0	0	-72	-121.4		-197	-176.0	
Arsenic								
Barium	0	471	8	442.6	94.0	6	450.8	95.7
Beryllium	0	438	2	450.7	102.9	2	452.5	103.3
Cadmium	0	888	43	904.9	101.9	41	930.9	104.8
Calcium	499280	455779	483950	481860.0	105.7	483750	482310.0	105.8
Chromium	0	429	27	458.0	106.8	25	461.6	107.6
Cobalt	0	427	67	487.6	114.2	71	501.3	117.4
Copper	0	458	-22	421.1	91.9	-29	413.6	90.3
Iron	199980	179441	172680	172130.0	95.9	171510	171230.0	95.4
Lead								
Magnesium	500130	493483	493460	492700.0	99.8	492920	493580.0	100.0
Manganese	0	466	37	465.8	100.0	35	468.3	100.5
Mercury								
Nickel	0	827	34	856.0	103.5	33	865.6	104.7
Potassium	0		-149			217		
Selenium								
Silver	0	935	-12	880.7	94.2	-8	873.3	93.4
Sodium	0		937			377		
Thallium								
Vanadium	0	466	-12	446.1	95.7	-30	432.0	92.7
Zinc	0	915	42	931.9	101.8	34	946.4	103.4

FORM IV - IN

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11A

ICP Interelement Correction Factors (Annually)

Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

ICP ID Number: JY Date: 02/25/91

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fa	Mg	_____
Aluminum	396.15	0.000000	0.000000	0.000000	0.000000	
Antimony	217.58	0.000000	-0.000000	0.000000	0.000000	
Arsenic						
Barium	233.53	0.000000	0.000000	0.000000	0.000000	
Beryllium	313.04	0.000000	-0.000000	-0.000000	0.000000	
Cadmium	226.50	0.000000	-0.000000	-0.000000	0.000000	
Calcium	317.93	-0.000000	-0.000000	0.000000	-0.000000	
Chromium	205.56	0.000000	-0.000000	0.000000	-0.000000	
Cobalt	228.62	0.000000	0.000000	-0.000200	0.000000	
Copper	324.75	0.000000	-0.000000	0.000000	-0.000000	
Iron	259.94	0.000000	0.000000	0.000000	0.000000	
Lead	220.35	0.000600	0.000000	0.000000	0.000000	
Magnesium	279.08	-0.000000	0.000000	0.000000	-0.000000	
Manganese	257.61	-0.000000	-0.000000	-0.000200	-0.000000	
Mercury						
Nickel	231.60	-0.000000	0.000000	-0.000200	0.000000	
Potassium	766.47	-0.000000	0.000000	0.000000	0.000000	
Selenium						
Silver	328.07	-0.000000	0.000000	-0.000200	0.000000	
Sodium	589.59	-0.000000	-0.000000	0.000000	0.000000	
Thallium						
Vanadium	292.40	-0.000000	0.000000	0.000600	0.000000	
Zinc	213.86	0.000000	0.000000	0.000000	0.000000	

Comments :

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12
ICP Linear Ranges (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9100.973AS No.: _____ SDG No.: WFB01_

ICP ID Number: JY_____ Date: 12/06/90

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	90.00	300000.0	
Antimony	90.00	10000.0	
Arsenic			NR
Barium	90.00	50000.0	
Beryllium	90.00	100000.0	
Cadmium	90.00	100000.0	
Calcium	90.00	500000.0	
Chromium	90.00	50000.0	
Cobalt	90.00	50000.0	
Copper	90.00	100000.0	
Iron	90.00	200000.0	
Lead	90.00	50000.0	
Magnesium	90.00	1000000.0	
Manganese	90.00	50000.0	
Mercury			NR
Nickel	90.00	50000.0	
Potassium	90.00	1000000.0	
Selenium			NR
Silver	90.00	10000.0	
Sodium	90.00	700000.0	
Thallium			NR
Vanadium	90.00	300000.0	
Zinc	90.00	50000.0	

Comments:

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10

Instrument Detection Limit. (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract : _____

Lab Code: EANDE_ Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01_

ICP ID Number: JY_____ Date: 04/10/91

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	396.15		200	14.0	P
Antimony	217.58		60	33.0	P
Arsenic			10		NR
Barium	233.53		200	5.0	P
Beryllium	313.04		5	1.0	P
Cadmium	226.50		5	3.0	P
Calcium	317.93		5000	95.0	P
Chromium	205.56		10	9.0	P
Cobalt	228.62		50	5.0	P
Copper	324.75		25	2.0	P
Iron	259.94		100	5.0	P
Lead			3		NR
Magnesium	279.08		5000	108.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	8.0	P
Potassium	766.47		5000	263.0	P
Selenium			5		NR
Silver	328.07		10	3.0	P
Sodium	589.59		5000	74.0	P
Thallium			10		NR
Vanadium	292.40		50	4.0	P
Zinc	213.86		20	3.0	P

Comments :

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10

Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____
 Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01
 ICP ID Number: _____ Data: 02/20/91
 Flame IVD ID Number : 2380
 Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	<u>253.70</u>		0.2	0.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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10

Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No. : WFB01

ICP ID Number: _____ Date : 01/24/91

Flame AA ID Number : _____

Furnace AA ID Number : 5100Z

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	193.70		10	2.0	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30		3	1.0	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00		5	2.0	F
Silver			10		NR
Sodium			5000		NR
Thallium	276.80		10	2.0	F
Vanadium			50		NR
Zinc			20		NR

Comments :

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2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT

Contract : _____

Lab Code: EANDE

Case No.: 9100.973 SAS lo: _____

SDG No. : WFB01

Initial calibration Source: EPA-LV/NBS

Continuing Calibration Source: VHG/P-E

Concentration Units: ug/L

Analyte	Initial calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum				500.0	517.97	103.6	524.16	104.8	P
Antimony				1000.0	985.44	98.5	1066.30	106.6	P
Arsenic				50.0	45.76	91.5	50.91	101.8	F
Barium				500.0	493.51	98.7	513.94	102.8	P
Beryllium				500.0	497.17	99.4	515.45	103.1	P
Cadmium				500.0	495.73	99.1	520.75	104.2	P
Calcium				20000.0	20920.00	104.6	21827.00	109.1	P
Chromium				500.0	484.79	97.0	516.40	103.3	P
Cobalt				500.0	492.73	98.5	516.53	103.3	P
Copper				500.0	469.26	93.9	482.87	96.6	P
Iron				500.0	499.47	99.9	517.16	103.4	P
Lead				15.0	13.78	91.9	14.53	96.9	F
Magnesium				20000.0	20593.00	103.0	21272.00	106.4	P
Manganese				500.0	482.53	96.5	503.54	100.7	P
Mercury				1.0	1.06	106.0			CV
Nickel				500.0	481.98	96.4	489.78	98.0	P
Potassium				20000.0	19444.00	97.2	21267.00	106.3	P
Selenium				50.0	48.79	97.6			F
Silver				500.0	475.80	95.2	491.31	98.3	P
Sodium				20000.0	19846.00	99.2	20504.00	102.5	P
Thallium				50.0	54.49	109.0	54.37	108.7	F
Vanadium				500.0	511.99	102.4	532.06	106.4	P
Zinc				500.0	494.05	98.8	516.44	103.3	P
Cyanide	95.4	102.00	106.9	100.0	114.00	114.0			AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No. : WFB01

Initial Calibration Source: EPA-LV/NBS

Continuing Calibration Source: VHG/P-E

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Aluminum				500.0	529.96	106.0			P
Antimony				1000.0	1052.70	105.3			P
Arsenic				50.0	55.24	110.5			F
Barium				500.0	521.17	104.2			P
Beryllium				500.0	515.24	103.0			P
Cadmium				500.0	527.90	105.6			P
Calcium				20000.0	21879.00	109.4			P
Chromium				500.0	521.39	104.3			P
Cobalt				500.0	526.60	105.3			P
Copper				500.0	484.16	96.8			P
Iron				500.0	524.80	105.0			P
Lead									NR
Magnesium				20000.0	21353.00	106.8			P
Manganese				500.0	505.66	101.1			P
Mercury									NR
Nickel				500.0	514.90	103.0			P
Potassium				20000.0	21322.00	106.6			P
Selenium									NR
Silver				500.0	489.19	97.8			P
Sodium				20000.0	20706.00	103.5			P
Thallium									NR
Vanadium				500.0	541.39	108.3			P
Zinc				500.0	522.75	104.6			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT_____ Contract: _____

Lab code: EANDE_____ Case No.: 9100.973 SAS No: _____ SDG NO.: WFB01_____

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg) : UG/L_____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank		M
			1	C	2	C	3	C	C	M	
Aluminum	14.0	U	14.0	U	14.0	U	14.0	U	17.3	B	P
Antimony	33.0	U	63.9	U	33.0	U	33.0	U	33.0	U	P
Arsenic	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	F
Barium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	P
Cadmium	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	P
Calcium	95.0	U	95.0	U	95.0	U	95.0	U	95.0	U	P
Chromium	9.0	U	9.0	U	9.0	U	9.0	U	9.0	U	P
Cobalt	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	P
Copper	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	P
Iron	8.6	B	5.0	U	5.0	U	5.0	U	26.9	B	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	F
Magnesium	108.0	U	108.0	U	108.0	U	108.0	U	108.0	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	-	-	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	8.0	U	CV
Nickel	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	P
Potassium	263.0	U	446.3	B	263.0	U	263.0	U	855.3	B	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	F
Silver	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	P
Sodium	74.0	U	74.0	U	74.0	U	-105.3	B	107.6	B	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	F
Vanadium	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	P
Zinc	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	P
Cyanide	10.0	U	10.0	U					10.0	U	AS

U.S. EPA - CLP

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9100.973 SAS No.: _____ SDG No.: WFB01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg) : UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	M
		1	C	2	C	3	C		
Aluminum		14.0	U	14.0	U			P	
Antimony		33.0	U	33.0	U			P	
Arsenic		2.0	U	2.0	U			F	
Barium		5.0	U	5.0	U			P	
Beryllium		1.0	U	1.0	U			P	
Cadmium		3.0	U	3.0	U			P	
Calcium		95.0	U	95.0	U			P	
Chromium		9.0	U	9.0	U			P	
Cobalt		8.2	B	6.4	B			P	
Copper		2.0	U	2.0	U			P	
Iron		19.5	B	6.1	B			P	
Lead		1.0	U					F	
Magnesium		108.0	U	108.0	U			P	
Manganese		1.0	U	1.3	B			P	
Mercury								NR	
Nickel		8.0	U	8.0	U			P	
Potassium		263.0	U	263.0	U			P	
Selenium								NR	
Silver		3.0	U	3.0	U			P	
Sodium		74.0	U	74.0	U			P	
Thallium		2.0	U					F	
Vanadium		4.9	B	7.1	B			P	
Zinc		3.0	U	3.0	U			P	
Cyanide	10.0	U	10.0	U			10.0	U	AS

0001

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9240

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02131

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	9	B
67-64-1	Acetone	5	B
75-15-0	Carbon Disulfide	3	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	if	
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane		
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene		U
79-01-6	Trichloroethene	E	U
124-48-1	Dibromochloromethane	E	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W001

Lab Name: E & E INC.

Contract:

Lab Code: EANDC

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9240

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02131

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.48	7.013	
2.	UNKNOWN	25.14	10.13	
3.	UNKNOWN HYDROCARBON	26.32	5.013	
4.	UNKNOWN HYDROCARBON	29.32	6.013	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W0010

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SOG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9241

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02134

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	U
67-64-1	Acetone	4	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
55-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-07-2	Bromodichloromethane	5	U
78-87-6	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: E & E INC

Contract:

W0010

Lab Code: EAND E

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9241

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02134

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.50	5.013	
2.	UNKNOWN HYDROCARBON	26.34	5.013	
3.	UNKNOWN HYDROCARBON	29.31	8.013	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFB01

Lab Name: E & E INC.

Contract:

Lab Code: EHNDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample I@: 9242

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D213F

Level: (low/med) LOW

Rate Received: 04/20/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	9	IB
67-64-1	Acetone	4	IBJ
75-15-0	Carbon Disulfide	5	IU
75-35-4	1,1-Dichloroethene	5	IU
75-34-3	1,1-Dichloroethane	5	IU
540-59-0	1,2-Dichloroethene (total)	5	IU
67-66-3	Chloroform	5	IU
107-06-2	1,2-Dichloroethane	5	IU
78-93-7	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5	IU
56-23-5	Carbon Tetrachloride	5	IB
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	5	IU
78-87-6	1,2-Dichloropropane	5	IU
10061-01-5	cis-1,3-Dichloropropene	5	IU
79-01-6	Trichloroethene	5	IU
124-48-1	Dibromochloromethane	5	IU
79-06-5	1,1,2-Trichloroethane	5	IU
71-43-2	Benzene	5	IU
10061-02-6	trans-1,3-Dichloropropene	5	IU
75-25-2	Bromoform	5	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5	IU
79-34-5	1,1,2,2-Tetrachloroethane	5	IU
109-88-3	Toluene	5	IU
108-90-7	Chlorobenzene	5	IU
100-41-4	Ethylbenzene	5	IU
100-42-5	Styrene	5	IU
1330-20-7	Xylene (total)	5	IU

FORM 1 UDA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WFB01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No. : 9100_973

SAS No. :

SOG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 9242

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02135

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 4

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110543	Hexane	4.61	6.013	
2.	UNKNOWN	25.15	7.013	
3.	UNKNOWN HYDROCARBON	26.34	6.013	
4	UNKNOWN HYDROCARBON	29.32	9.013	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WPE01

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No. : 9100_973

SAS No. :

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 9244

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D2137

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	10
74-83-9	Bromomethane	10	10
75-01-4	Vinyl Chloride	10	10
75-00-3	Chloroethane	10	10
75-09-2	Methylene Chloride	8	10
67-64-1	Acetone	10	10
75-15-0	Carbon Disulfide	5	10
75-35-4	1,1-Dichloroethene	5	10
75-34-3	1,1-Dichloroethane	5	10
540-59-0	1,2-Dichloroethene (total)	5	10
67-65-3	Chloroform	5	10
107-06-2	1,2-Dichloroethane	5	10
78-93-3	2-Butanone	10	10
71-55-6	1,1,1-Trichloroethane	5	10
96-23-5	Carbon Tetrachloride	5	10
109-95-4	Vinyl Acetate	10	10
75-27-4	Bromodichloromethane	5	10
78-87-5	1,2-Dichloropropane	5	10
10061-01-5	cis-1,3-Dichloropropene	5	10
79-01-6	Trichloroethene	5	10
124-48-1	Dibromochloromethane	5	10
79-00-5	1,1,2-Trichloroethane	5	10
71-43-2	Benzene	5	10
10061-02-6	trans-1,3-Dichloropropene	5	10
75-25-2	Bromoform	5	10
108-10-1	4-Methyl-2-Pentanone	10	10
591-78-6	2-Hexanone	10	10
127-18-4	Tetrachloroethene	5	10
79-34-5	1,1,2,2-Tetrachloroethane	5	10
108-88-3	Toluene	5	10
108-90-7	Chlorobenzene	5	10
100-41-4	Ethylbenzene	5	10
100-42-5	Styrene	5	10
1330-20-7	Xylene (total)	5	10

FORM 1 UDA

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WFB01

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100_973

SA3 No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample I@: 9244

Sample wt/vol: 5.0 (g/mL) ML

Lab File I@: D2137

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110543	Hexane	4.57	7.01J	
2.	UNKNOWN	20.50	14 J	
3.	UNKNOWN	25.14	17 J	
4.	UNKNOWN HYDROCARBON	29.32	5.01J	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFB01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 3243

Sample wt/vol: 5.0 (ug/mL) ML

Lab File ID: 00170

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
74-87-3	Chloromethane	10	10
74-83-9	Bromomethane	10	10
75-01-4	Vinyl Chloride	10	10
75-00-3	Chloroethane	10	10
75-09-2	Methylene Chloride	10	10
67-64-1	Acetone	10	10
75-15-0	Carbon Disulfide	5	10
75-35-4	1,1-Dichloroethene	5	10
75-34-3	1,1-Dichloroethane	5	10
540-59-0	1,2-Dichloroethene (total)	5	10
67-66-3	Chloroform	5	10
107-06-2	1,2-Dichloroethane	5	10
78-93-3	2-Butanone	10	10
71-55-6	1,1,1-Trichloroethane	5	10
55-23-5	Carbon Tetrachloride	5	10
109-05-4	Vinyl Acetate	10	10
75-27-4	Bromodichloromethane	5	10
78-87-6	1,2-Dichloropropane	5	10
10061-01-9	cis-1,3-Dichloropropene	5	10
79-01-6	Trichloroethene	5	10
124-48-1	Dibromochloromethane	5	10
79-00-6	1,1,2-Trichloroethane	5	10
71-43-2	Benzene	5	10
10061-02-6	trans-1,3-Dichloropropene	5	10
75-25-2	Bromoform	5	10
108-10-1	4-Methyl-2-Pentanone	10	10
691-78-6	2-Hexanone	10	10
127-18-4	Tetrachloroethene	5	10
79-34-5	1,1,2,2-Tetrachloroethane	5	10
109-88-3	Toluene	5	10
108-90-7	Chlorobenzene	5	10
100-41-4	Ethylbenzene	5	10
100-42-5	Styrene	5	10
1330-20-7	Xylene (total)	5	10

3101249

FORM 1 UOA

1/87 Rev.

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WRB01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SCG No.:

Matrix: (soil/water) WATER

Lab Sample I@: 9243

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D213c

Level: (low/med) LDW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110543	Hexane	4.55	7.013	
2.	UNKNOWN	25.15	8.013	
3.	UNKNOWN HYDROCARBON	29.32	8.013	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WTB01

Lab Name: E & B INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9245

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02154

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/29/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg)	UNITS	Q
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	5	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	5	U	
75-35-4	1,1-Dichloroethene	5	U	
75-34-3	1,1-Dichloroethane	5	U	
540-59-0	1,2-Dichloroethene (total)	5	U	
67-66-3	Chloroform	5	U	
107-06-2	1,2-Dichloroethane	5	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	5	U	
56-23-5	Carbon Tetrachloride	5	U	
178-05-4	Vinyl Acetate	10	U	
75-27-4	Bromodichloroethane	5	U	
75-37-5	1,2-Dichloropropane	5	U	
11061-01-5	cis-1,3-Dichloropropene	5	U	
79-01-6	Trichloroethene	5	U	
124-48-1	Dibromochloroethane	5	U	
79-00-5	1,1,2-Trichloroethane	5	U	
71-43-2	Benzene	5	U	
10061-02-6	trans-1,3-Dichloropropene	5	U	
75-25-2	Bromoform	5	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	5	U	
77-34-5	1,1,2,2-Tetrachloroethane	5	U	
108-88-3	Toluene	5	U	
108-90-7	Chlorobenzene	5	U	
100-41-4	Ethylbenzene	5	U	
100-42-5	Styrene	5	U	
1330-20-7	Xylene (total)	5	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

UTB01

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9245

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02154

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/29/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W001MS

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100-973

SAS No. :

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 9240MS

Sample wt/vol: 5.0 (g/mL) ML

Lab File IO: 02132

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	11	IB
67-64-1	Acetone	11	IB
75-15-0	Carbon Disulfide	5	IU
75-35-4	1,1-Dichloroethene	5	IU
75-34-3	1,1-Dichloroethane	5	IU
540-59-0	1,2-Dichloroethene (total)	5	IU
67-66-3	Chloroform	13	I
107-06-2	1,2-Dichloroethane	5	IU
78-93-3	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5	IU
56-23-5	Carbon Tetrachloride	E	IU
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	E	IU
78-87-5	1,2-Dichloropropane	5	IU
10061-01-5	cis-1,3-Dichloropropene	5	IU
79-01-6	Trichloroethene	5	IU
124-48-1	Dibromochloromethane	5	IU
79-00-5	1,1,2-Trichloroethane	5	IU
71-43-2	Benzene	5	IU
10061-02-6	trans-1,3-Dichloropropene	5	IU
75-25-2	Bromoform	5	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5	IU
79-34-5	1,1,2,2-Tetrachloroethane	5	IU
108-88-3	Toluene	5	IU
108-90-7	Chlorobenzene	5	IU
100-41-4	Ethylbenzene	5	IU
100-42-5	Styrene	5	IU
1330-20-7	Xylene (total)	5	IU

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W001MSD

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100_973

SAS tio.:

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 9240MSD

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D2133

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec.

Date Analyzed: 04/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	10	IB
67-64-1	Acetone	18	IB
75-15-0	Carbon Disulfide	5	IU
75-35-4	1,1-Dichloroethene	5	IU
75-34-3	1,1-Dichloroethane	5	IU
540-59-0	1,2-Dichloroethene (total)	5	IU
67-66-3	Chloroform	12	I
107-06-2	1,2-Dichloroethane	5	IU
78-93-3	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5	IU
56-23-5	Carbon Tetrachloride	5	IU
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	5	IU
78-87-5	1,2-Dichloropropane	5	IU
10061-01-5	cis-1,3-Dichloropropene	5	IU
79-01-6	Trichloroethene	5	IU
124-48-1	Dibromochloromethane	5	IU
79-00-5	1,1,2-Trichloroethane	5	IU
71-43-2	Benzene	5	IU
10061-02-6	trans-1,3-Dichloropropene	5	IU
75-25-2	Bromoform	5	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5	IU
79-34-5	1,1,2,2-Tetrachloroethane	5	IU
108-88-3	Toluene	5	IU
108-90-7	Chlorobenzene	5	IU
100-41-4	Ethylbenzene	5	IU
100-42-5	Styrene	5	IU
1330-20-7	Xylene (total)	5	IU

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

UBLKW1

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100_973

SAS No. :

SDG No. :

matrix: (soil/water) WATER

Lab Sample I@: UBLKW1

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02123

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/27/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	13	I
67-64-1	Acetone	1	IJ
75-15-0	Carbon Disulfide	5	IU
75-35-4	1,1-Dichloroethene	5	IU
75-34-3	1,1-Dichloroethane	5	IU
540-59-0	1,2-Dichloroethene (total)	5	IU
67-66-3	Chloroform	5	IU
107-06-2	1,2-Dichloroethane	5	IU
78-93-3	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5	IU
56-23-5	Carbon Tetrachloride	5	IU
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	5	IU
78-87-5	1,2-Dichloropropane	5	IU
10061-01-5	cis-1,3-Dichloropropene	5	IU
79-01-6	Trichloroethene	5	IU
124-48-1	Dibromochloromethane	5	IU
79-00-5	1,1,2-Trichloroethane	5	IU
71-43-2	Benzene	5	IU
10061-02-6	trans-1,3-Dichloropropene	5	IU
75-25-2	Bromoform	5	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5	IU
79-34-5	1,1,2,2-Tetrachloroethane	5	IU
108-88-3	Toluene	5	IU
108-90-7	Chlorobenzene	5	IU
100-41-4	Ethylbenzene	5	IU
100-42-5	Styrene	5	IU
1330-20-7	Xylene (total)	5	IU

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

UCLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab sample ID: UCLKW1

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02123

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/27/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW2

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: VBLKW2

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 02152

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/29/91

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	2	IJ
67-64-1	Acetone	14	I
75-15-0	Carbon Disulfide	5	IU
75-35-4	1,1-Dichloroethene	5	IU
75-34-3	1,1-Dichloroethane	5	IU
540-59-0	1,2-Dichloroethene (total)	5	IU
67-66-3	Chloroform	5	IU
107-06-2	1,2-Dichloroethane	E	IU
78-93-3	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5	IU
56-23-5	Carbon Tetrachloride	5	IU
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	5	IU
78-87-5	1,2-Dichloropropane	5	IU
10061-01-5	cis-1,3-Dichloropropene	5	IU
79-01-6	Trichloroethene	5	IU
124-48-1	Dibromochloromethane	5	IU
79-00-5	1,1,2-Trichloroethane	5	IU
71-43-2	Benzene	5	IU
10061-02-6	trans-1,3-Dichloropropene	5	IU
75-25-2	Bromoform	5	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5	IU
79-34-5	1,1,2,2-Tetrachloroethane	5	IU
108-88-3	Toluene	5	IU
108-90-7	Chlorobenzene	5	IU
100-41-4	Ethylbenzene	E	IU
100-42-5	Styrene	5	IU
1330-20-7	Xylene (total)	5	IU

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

UBLKW2

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100-973

SAS No.:

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: UBLKW2

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D2152

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/29/91

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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-----	-----	-----	-----	-----

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W001

Lab Name: E & E INC.

Contrsct:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

S@G No. :

Matrix: (soil/water) WATER

Lab Sample IO: 9240

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 63679

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/08/91

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	10
111-44-4	bis(2-Chloroethyl)Ether	10	10
95-57-8	2-Chlorophenol	10	10
541-73-1	1,3-Dichlorobenzene	10	10
106-46-7	1,4-Dichlorobenzene	10	10
100-51-6	Benzyl Alcohol	10	10
95-50-1	1,2-Dichlorobenzene	10	10
95-48-7	2-Methylphenol	10	10
39638-32-9	bis(2-Chloroisopropyl)Ether	10	10
106-44-5	4-Methylphenol	10	10
621-64-7	N-Nitroso-Di-n-Propylamine	10	10
67-72-1	Hexachloroethane	10	10
98-95-3	Nitrobenzene	10	10
78-59-1	Isophorone	10	10
88-75-5	2-Nitrophenol	10	10
105-67-9	2,4-Dimethylphenol	10	10
65-85-0	Benzoic Acid	50	10
111-91-1	bis(2-Chloroethoxy)Methane	10	10
120-83-2	2,4-Dichlorophenol	10	10
120-82-1	1,2,4-Trichlorobenzene	10	10
91-20-3	Naphthalene	10	10
106-47-8	4-Chloroaniline	10	10
87-68-3	Hexachlorobutadiene	10	10
59-50-7	4-Chloro-3-Methylphenol	10	10
91-57-6	2-Methylnaphthalene	10	10
77-47-4	Hexachlorocyclopentadiene	10	10
88-06-2	2,4,6-Trichlorophenol	10	10
95-95-4	2,4,5-Trichlorophenol	50	10
91-58-7	2-Chloronaphthalene	10	10
88-74-4	2-Nitroaniline	50	10
131-11-3	Dimethyl Phthalate	10	10
208-96-8	Acenaphthylene	10	10
606-20-2	2,6-Dinitrotoluene	10	10

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W001

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 3240

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3679

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/08/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	IU
83-32-9	Acenaphthene	10	IU
51-28-5	2,4-Dinitrophenol	50	IU
100-02-7	4-Nitrophenol	50	IU
132-64-9	Dibenzofuran	10	IU
121-14-2	2,4-Dinitrotoluene	10	IU
84-66-2	Diethylphthalate	10	IU
7005-72-3	4-Chlorophenyl-phenylether	10	IU
86-73-7	Fluorene	10	IU
100-10-6	4-Nitroaniline	50	IU
534-52-1	4,6-Dinitro-2-Methylphenol	EO	IU
86-30-6	N-Nitrosodiphenylamine (1)	10	IU
101-55-3	4-Bromophenyl-phenylether	10	IU
118-74-1	Hexachlorobenzene	10	IU
87-86-5	Pentachlorophenol	50	IU
85-01-8	Phenanthrene	10	IU
120-12-7	Anthracene	10	IU
84-74-2	Di-n-Butylphthalate	10	IU
206-44-0	Fluoranthene	10	IU
129-00-0	Pyrene	10	IU
85-68-7	Butylbenzylphthalate	10	IU
91-94-1	3,3'-Dichlorobenzidine	20	IU
56-55-3	Benzo(a)Anthracene	10	IU
218-01-9	Chrysene	10	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	6	18J
117-84-0	Di-n-Octyl Phthalate	10	IU
205-99-2	Benzo(b)Fluoranthene	10	IU
207-08-9	Benzo(k)Fluoranthene	10	IU
50-32-8	Benzo(a)Pyrene	10	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	10	IU
53-70-3	Dibenz(a,h)Anthracene	10	IU
191-24-2	Benzo(g,h,i)Perylene	10	IU

(1) - Cannot be separated from Diphenylamine

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W001

Lsb Name: E 8 E INC.

Contract :

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 9240

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3679

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/08/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

Number TICs found: 19

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.31	100	BJ
2.	UNKNOWN HYDROCARBON	19.10	7.0	J
3.	UNKNOWN	19.29	10	BJ
4.	UNKNOWN ACID	20.13	15	J
5.	UNKNOWN HYDROCARBON	20.63	16	J
6.	UNKNOWN HYDROCARBON	22.10	12	J
7.	UNKNOWN HYDROCARBON	22.18	6.0	J
8.	UNKNOWN HYDROCARBON	27.02	79	BJ
9.	UNKNOWN HYDROCARBON	23.36	17	J
10.	UNKNOWN HYDROCARBON	29.94	AD	J
11.	UNKNOWN HYDROCARBON	30.62	6.0	J
12.	UNKNOWN HYDROCARBON	30.98	11	J
13.	UNKNOWN	31.07	33	J
14.	UNKNOWN HYDROCARBON	32.62	6.0	J
15.	UNKNOWN	33.62	88	J
16.	UNKNOWN	39.00	6.0	J
17.	UNKNOWN	41.03	20	J
18.	UNKNOWN	41.13	11	J
19.	UNKNOWN	43.84	110	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

W0010

Lab Name: E 6 E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9241

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3680

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/08/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	10
111-44-4	bis(2-Chloroethyl)Ether	10	10
95-57-8	2-Chlorophenol	10	10
541-73-1	1,3-Dichlorobenzene	10	10
106-46-7	1,4-Dichlorobenzene	10	10
100-51-6	Benzyl Alcohol	10	10
95-50-1	1,2-Dichlorobenzene	10	10
95-48-7	2-Methylphenol	10	10
39638-32-9	bis(2-Chloroisopropyl)Ether	10	10
106-44-5	4-Methylphenol	10	10
621-64-7	N-Nitroso-Di-n-Propylamine	10	10
67-72-1	Hexachloroethane	10	10
98-95-3	Nitrobenzene	10	10
78-59-1	Isophorone	10	10
88-75-5	2-Nitrophenol	10	10
105-67-9	2,4-Dimethylphenol	10	10
65-85-0	Benzoic Acid	50	10
111-91-1	bis(2-Chloroethoxy)Methane	10	10
120-83-2	2,4-Dichlorophenol	10	10
120-82-1	1,2,4-Trichlorobenzene	10	10
91-20-3	Naphthalene	10	10
106-47-8	4-Chloroaniline	10	10
87-68-3	Hexachlorobutadiene	10	10
59-50-7	4-Chloro-3-Methylphenol	10	10
91-57-6	2-Methylnaphthalene	10	10
77-47-4	Hexachlorocyclopentadiene	10	10
88-06-2	2,4,6-Trichlorophenol	10	10
95-95-4	2,4,5-Trichlorophenol	50	10
91-58-7	2-Chloronaphthalene	10	10
88-74-4	2-Nitroaniline	50	10
131-11-3	Dimethyl Phthalate	10	10
208-96-8	Acenaphthylene	10	10
606-20-2	2,6-Dinitrotoluene	10	10

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W001D

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No. : 9100-973

SAS No. :

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 3241

sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3680

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Data Analyzed: 05/08/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	IU
83-32-9	Acenaphthene	10	IU
51-28-5	2,4-Dinitrophenol	50	IU
100-02-7	4-Nitrophenol	50	IU
132-64-9	Dibenzofuran	10	IU
121-14-2	2,4-Dinitrotoluene	10	IU
84-60-2	Diethylphthalate	10	IU
7005-72-3	4-Chlorophenyl-phenylether	10	IU
86-73-7	Fluorene	10	IU
100-10-6	4-Nitroaniline	50	IU
534-52-1	4,6-Dinitro-2-Methylphenol	50	IU
36-30-6	N-Nitrosodiphenylamine (1)	10	IU
101-55-3	4-Bromophenyl-phenylether	10	IU
118-74-1	Hexachlorobenzene	10	IU
87-86-5	Pentachlorophenol	50	IU
85-01-8	Phenanthrene	10	IU
120-12-7	Anthracene	10	IU
84-74-2	Di-n-Butylphthalate	10	IU
206-44-0	Fluoranthene	10	IU
129-00-0	Pyrene	10	IU
85-68-7	Butylbenzylphthalate	10	IU
91-94-1	3,3'-Dichlorobenzidine	20	IU
56-55-3	Benzo(a)Anthracene	10	IU
218-01-9	Chrysene	10	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	~	IBJ
117-84-0	Di-n-Octyl Phthalate	10	IU
205-99-2	Benzo(b)Fluoranthene	10	IU
207-08-9	Benzo(k)Fluoranthene	10	IU
50-32-8	Benzo(a)Pyrene	10	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	10	IU
53-70-3	Dibenz(a,h)Anthracene	10	IU
191-24-2	Benzo(g,h,i)Perylene	10	IU

(1) - Cannot be separated from Diphenylamine

1F
 SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W001D

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 3241

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3680

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/08/91

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.31	80	BJ
2.	UNKNOWN	19.29	12	BJ
3.	UNKNOWN HYDROCARBON	20.65	4.0	BJ
4.	UNKNOWN HYDROCARBON	26.98	160	BJ
5.	UNKNOWN HYDROCARBON	28.86	5.0	BJ
6.	UNKNOWN HYDROCARBON	29.94	4.0	BJ
7.	UNKNOWN	31.68	10	BJ
8.	UNKNOWN	33.62	20	BJ
9.	UNKNOWN	37.02	43	BJ
10.	UNKNOWN	37.22	53	BJ
11.	UNKNOWN	41.03	6.0	BJ
12.	UNKNOWN	41.13	4.0	BJ
13.	UNKNOWN	42.95	94	BJ
14.	UNKNOWN	43.21	30	BJ
15.	UNKNOWN	43.83	41	BJ

1B
SEMIUOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFB01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9242

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 63700

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/13/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	5ii	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFBO 1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9242

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3700

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/13/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	IU
83-32-9	Acenaphthene	10	IU
51-29-5	2,4-Dinitrophenol	50	IU
100-02-7	4-Nitrophenol	50	IU
132-64-9	Dibenzofuran	10	IU
121-14-2	2,4-Dinitrotoluene	10	IU
84-66-2	Diethylphthalate	10	IU
7005-72-3	4-Chlorophenyl-phenylether	10	IU
86-73-7	Fluorene	10	IU
100-10-6	4-Nitroaniline	50	IU
534-52-1	4,6-Dinitro-2-Methylphenol	50	IU
96-30-6	N-Nitrosodiphenylamine (1)	10	IU
101-55-3	4-Bromophenyl-phenylether	10	IU
118-74-1	Hexachlorobenzene	10	IU
87-86-5	Pentachloropheno.	50	IU
35-01-3	Phenanthrene	10	IU
120-12-7	Anthracene	10	IU
84-74-2	Di-n-Butylphthalate	10	IU
206-44-0	Fluoranthene	10	IU
129-00-0	Pyrene	10	IU
85-68-7	Butylbenzylphthalate	10	IU
91-94-1	3,3'-Dichlorobenzidine	20	IU
56-55-3	Benzo(a)Anthracene	10	IU
218-01-9	Chrysene	10	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	8	IBJ
117-84-0	Di-n-Octyl Phthalate	10	IU
205-99-2	Benzo(b)Fluoranthene	10	IU
207-08-9	Benzo(k)Fluoranthene	10	IU
50-32-8	Benzo(a)Pyrene	10	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	10	IU
53-70-3	Dibenz(a,h)Anthracene	10	IU
191-24-2	Benzo(g,h,i)Perylene	10	IU

(1) - Cannot be separated from Diphenylamine

1F
 SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COUPOUNDS

EPA SAMPLE NO.

WFB01

Lab Name: E & E INC.

Contract :

Lab Code: EANDE

Case No.: 9100_973

SAS No. :

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 9242

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3700

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/13/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.11	110	BJ
2.	UNKNOWN	19.31	9.0	BJ
3.	UNKNOWN HYDROCARBON	26.84	120	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WRB01

Lab Name: E 8 E INC.

Contract:

Lab Code: EANDE

Cast No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9243

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3701

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/13/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	10
111-44-4	bis(2-Chloroethyl)Ether	10	10
95-57-8	2-Chlorophenol	10	10
541-73-1	1,3-Dichlorobenzene	10	10
106-46-7	1,4-Dichlorobenzene	10	10
100-51-6	Benzyl Alcohol	10	10
95-50-1	1,2-Dichlorobenzene	10	10
95-48-7	2-Methylphenol	10	10
39638-32-9	bis(2-Chloroisopropyl)Ether	10	10
106-44-5	4-Methylphenol	10	10
621-64-7	N-Nitroso-Di-n-Propylamine	10	10
67-72-1	Hexachloroethane	10	10
98-95-3	Nitrobenzene	10	10
78-59-1	Isophorone	10	10
88-75-5	2-Nitrophenol	10	10
105-67-9	2,4-Dimethylphenol	10	10
65-85-0	Benzoic Acid	50	10
111-91-1	bis(2-Chloroethoxy)Methane	10	10
120-83-2	2,4-Dichlorophenol	10	10
120-82-1	1,2,4-Trichlorobenzene	10	10
91-20-3	Naphthalene	10	10
106-47-8	4-Chloroaniline	10	10
87-68-3	Hexachlorobutadiene	10	10
59-50-7	4-Chloro-3-Methylphenol	10	10
91-57-6	2-Methylnaphthalene	10	10
77-47-4	Hexachlorocyclopentadiene	10	10
88-06-2	2,4,6-Trichlorophenol	10	10
95-95-4	2,4,5-Trichlorophenol	50	10
91-58-7	2-Chloronaphthalene	10	10
88-74-4	2-Nitroaniline	50	10
131-11-3	Dimethyl Phthalate	10	10
208-96-8	Acenaphthylene	10	10
606-20-2	2,6-Dinitrotoluene	10	10

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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract :

WRB01

Lab Code: EANOE

Case No.: 9100_973

SAS No.:

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 9243

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 63701

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/13/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	IU
83-32-9	Acenaphthene	10	IU
51-28-5	2,4-Dinitrophenol	50	IU
100-02-7	4-Nitrophenol	50	IU
132-64-9	Dibenzofuran	10	IU
121-14-2	2,4-Dinitrotoluene	10	IU
84-66-2	Diethylphthalate	10	IU
7005-72-3	4-Chlorophenyl-phenylether	10	IU
86-73-7	Fluorene	10	IU
100-10-6	4-Nitroaniline	50	IU
534-52-1	4,6-Dinitro-2-Methylphenol	EO	tu
86-30-6	N-Nitrosodiphenylamine (1)	10	IU
101-55-3	4-Bromophenyl-phenylether	10	IU
119-74-1	Hexachlorobenzene	10	IU
87-86-8	Pentachlorophenol	40	IU
85-01-8	Phenanthrene	10	IU
120-12-7	Anthracene	10	IU
84-74-2	Di-n-Butylphthalate	10	IU
206-44-0	Fluoranthene	10	IU
129-00-0	Pyrene	10	IU
85-68-7	Butylbenzylphthalate	10	IU
91-94-1	3,3'-Dichlorobenzidine	20	IU
56-55-3	Benzo(a)Anthracene	10	IU
218-01-9	Chrysene	10	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	7	IU
117-84-0	Di-n-Octyl Phthalate	10	IU
205-99-2	Benzo(b)Fluoranthene	10	IU
207-08-9	Benzo(k)Fluoranthene	10	IU
50-32-8	Benzo(a)Pyrene	10	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	10	IU
53-70-3	Dibenz(a,h)Anthracene	10	IU
191-24-2	Benzo(g,h,i)Perylene	10	IU

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WRB01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample I@: 9243

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3701

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dac. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/13/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.09	72	BJ
2.	UNKNOWN	19.31	9.0	BJ
3.	UNKNOWN HYDROCARBON	26.81	110	J

1B
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

3101260

Lab Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No.: 9100_973 SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 914015
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: 57691
 Level: (low/med) LOW Date Received: 04/26/91
 % Moisture: not dec. dec. Date Extracted: 04/30/91
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/09/91
 GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
108-95-2	Phenol	10	10
111-44-4	bis(2-Chloro	10	10
95-57-8	2-Chlorophen	10	10
541-73-1	1,3-Dichloro	10	10
106-46-7	1,4-Dichloro	10	10
100-51-6	Benzyl Alcoh	10	10
95-50-1	1,2-Dichloro	10	10
95-48-7	2-Methylphen	10	10
39638-32-9	bis(2-Chloro	10	10
106-44-5	4-Methylphen	10	10
621-64-7	N-Nitroso-Di	10	10
67-72-1	Hexachloroet	10	10
98-95-3	Nitrobenzene	10	10
78-59-1	Isophorone	10	10
88-75-5	2-Nitropheno	10	10
115-87-9	2,4-Dimethyl	10	10
60-85-0	Benzoic Acid	50	10
111-91-1	bis(2-Chloro	10	10
120-83-2	2,4-Dichloro	10	10
120-82-1	1,2,4-Trichl	10	10
91-20-3	Naphthalene	10	10
106-47-8	4-Chloroanil	10	10
87-68-3	Hexachlorobu	10	10
59-50-7	4-Chloro-3-fl	10	10
91-57-6	2-Methylnaph	10	10
77-47-4	Hexachlorocy	10	10
83-06-2	2,4,6-Trichl	10	10
95-95-4	2,4,5-Trichl	50	10
91-58-7	2-Chloronaph	10	10
88-74-4	2-Nitroanili	50	10
131-11-3	Dimethyl Pht	10	10
208-96-8	Acenaphthyle	10	10
606-20-2	2,6-Dinitrot	10	10

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: E & E INC.

Contract:

W00115

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 924015

Sample Mt/Vol: 1000 (g/mL) ML

Lab File ID: 63691

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/09/91

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.0

CONCENTRATION UNITS:

Q

99-09-2-----3-Nitroaniline_____	50	10
33-32-9-----Acenaphthene_____	10	10
51-28-8-----2,4-Dinitrophenol_____	50	10
100-02-7-----4-Nitrophenol_____	50	10
132-64-9-----Dibenzofuran_____	10	10
121-14-2-----2,4-Dinitrotoluene_____	10	10
84-66-2-----Diethylphthalate_____	10	10
7005-72-3-----4-Chlorophenyl-phenylether____	10	10
85-73-7-----Fluorene_____	10	10
110-10-6-----4-Nitroaniline_____	50	10
534-52-1-----4,o-Dinitro-2-Methylphenol____	50	10
36-30-6-----N-Nitrosodiphenylamine (1)____	10	10
101-55-3-----4-Bromophenyl-phenylether____	10	10
113-74-1-----Hexachlorobenzene_____	10	10
87-86-5-----Pentachlorophenol_____	50	10
37-01-8-----Phenanthrene_____	10	10
127-12-7-----Anthracene_____	10	10
90-74-2-----Di-n-Butylphthalate_____	10	10
206-44-0-----Fluoranthene_____	10	10
129-00-0-----Pyrene_____	10	10
65-68-7-----Butylbenzylphthalate_____	10	10
91-94-1-----3,3'-Dichlorobenzidine_____	20	10
56-55-3-----Benzo(a)Anthracene_____	10	10
218-01-9-----Chrysene_____	10	10
117-81-7-----bis(2-Ethylhexyl)Phthalate____	16	10
117-84-0-----Di-n-Octyl Phthalate_____	10	10
216-99-2-----Benzo(b)Fluoranthene_____	10	10
207-08-9-----Benzo(k)Fluoranthene_____	10	10
50-32-8-----Benzo(a)Pyrene_____	10	10
193-39-5-----Indeno(1,2,3-cd)Pyrene_____	10	10
53-70-3-----Dibenz(a,h)Anthracene_____	10	10
191-24-2-----Benzo(g,h,i)Perylene_____	10	10

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0001MBC

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID: 9240MED

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: G3692

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/09/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	10
111-44-4	bis(2-Chloroethyl)Ether	10	10
95-57-8	2-Chlorophenol	10	10
541-73-1	1,3-Dichlorobenzene	10	10
106-46-7	1,4-Dichlorobenzene	10	10
100-51-6	Benzyl Alcohol	10	10
95-50-1	1,2-Dichlorobenzene	10	10
95-48-7	2-Methylphenol	10	10
39638-32-9	bis(2-Chloroisopropyl)Ether	10	10
106-44-5	4-Methylphenol	10	10
621-64-7	N-Nitroso-Di-n-Propylamine	10	10
67-72-1	Hexachloroethane	10	10
95-95-3	Nitrobenzene	10	10
75-59-1	Isophorone	10	10
88-75-5	2-Nitrophenol	10	10
105-67-9	2,4-Dimethylphenol	10	10
68-88-0	Benzoic Acid	10	10
111-91-1	bis(2-Chloroethoxy)Methane	10	10
120-83-2	2,4-Dichlorophenol	10	10
120-82-1	1,2,4-Trichlorobenzene	10	10
91-20-3	Naphthalene	10	10
106-47-8	4-Chloroaniline	10	10
87-68-3	Hexachlorobutadiene	10	10
59-50-7	4-Chloro-3-Methylphenol	10	10
91-57-6	2-Methylnaphthalene	10	10
77-47-4	Hexachlorocyclopentadiene	10	10
88-06-2	2,4,6-Trichlorophenol	10	10
95-95-4	2,4,5-Trichlorophenol	50	10
91-58-7	2-Chloronaphthalene	10	10
88-74-4	2-Nitroaniline	50	10
171-11-3	Dimethyl Phthalate	10	10
208-96-8	Acenaphthylene	10	10
686-20-2	2,6-Dinitrotoluene	10	10

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. _____

1 000178C
| _____

Lab Name: E & E INC.

Contract: _____

Lab Code: EANDE

Case No.: 9100_973

SAS No.: _____

SDG No.: _____

Matrix: (soil/water) WATER

Lab Sample ID: 9240MSD

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 63692

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/09/91

GPC Cleanup: (Y/N) N

pH: _____

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UMITS: (ug/L or ug/Kg) UG/L	Q
99-09-2-----	3-Nitroaniline_____	50	1U
83-32-9-----	Acenaphthene_____	10	1U
51-28-5-----	2,4-Dinitrophenol_____	50	1U
100-02-7-----	4-Nitrophenol_____	50	1U
132-64-9-----	Dibenzofuran_____	10	1U
121-14-2-----	2,4-Dinitrotoluene_____	10	1U
84-66-2-----	Diethylphthalate_____	10	1U
7005-72-3-----	4-Chlorophenyl-phenylether____	10	1U
86-73-7-----	Fluorene_____	10	1U
100-10-6-----	4-Nitroaniline_____	50	1U
534-52-1-----	4,6-Dinitro-2-Methylphenol____	50	1U
96-30-6-----	N-Nitrosodiphenylamine (1)____	10	1U
101-55-3-----	4-Bromophenyl-phenylether____	10	1U
118-74-1-----	Hexachlorobenzene_____	10	1U
87-86-6-----	Pentachlorophenol_____	50	1U
89-01-8-----	Phenanthrene_____	10	1U
120-12-7-----	Anthracene_____	10	1U
84-74-2-----	Di-n-Butylphthalate_____	10	1U
206-44-0-----	Fluoranthene_____	10	1U
129-00-0-----	Pyrene_____	10	1U
85-68-7-----	Butylbenzylphthalate_____	10	1U
91-94-1-----	3,3'-Dichlorobenzidine_____	20	1U
56-55-3-----	Benzo(a)Anthracene_____	10	1U
218-01-9-----	Chrysene_____	10	1U
117-81-7-----	bis(2-Ethylhexyl)Phthalate____	16	1U
117-84-0-----	Di-n-Octyl Phthalate_____	10	1U
205-99-2-----	Benzo(b)Fluoranthene_____	10	1U
207-08-9-----	Benzo(k)Fluoranthene_____	10	1U
50-32-8-----	Benzo(a)Pyrene_____	10	1U
193-39-5-----	Indeno(1,2,3-cd)Pyrene_____	10	1U
53-70-3-----	Dibenz(a,h)Anthracene_____	10	1U
191-24-2-----	Benzo(g,h,i)Perylene_____	10	1U

(1) - Cannot be separated from Diphenylamine

1B
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID: SBLKW1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 63627

Level: (low/med) LOW

Date Received:

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/08/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	10
111-44-4	bis(2-Chloroethyl)Ether	10	10
95-57-8	2-Chlorophenol	10	10
541-73-1	1,3-Dichlorobenzene	10	10
106-46-7	1,4-Dichlorobenzene	10	10
100-51-6	Benzyl Alcohol	10	10
95-50-1	1,2-Dichlorobenzene	10	10
95-48-7	2-Methylphenol	10	10
39638-32-9	bis(2-Chloroisopropyl)Ether	10	10
106-44-5	4-Methylphenol	10	10
621-64-7	N-Nitroso-Di-n-Propylamine	10	10
67-72-1	Hexachloroethane	10	10
98-95-3	Nitrobenzene	10	10
78-59-1	Isophorone	10	10
88-75-5	2-Nitrophenol	10	10
105-67-9	2,4-Dimethylphenol	10	10
65-85-0	Benzoic Acid	50	10
111-91-1	bis(2-Chloroethoxy)Methane	10	10
120-83-2	2,4-Dichlorophenol	10	10
120-82-1	1,2,4-Trichlorobenzene	10	10
91-20-3	Naphthalene	10	10
106-47-8	4-Chloroaniline	10	10
87-68-3	Hexachlorobutadiene	10	10
59-56-7	4-Chloro-3-Methylphenol	10	10
91-57-6	2-Methylnaphthalene	10	10
77-47-4	Hexachlorocyclopentadiene	10	10
88-06-2	2,4,6-Trichlorophenol	10	10
95-95-4	2,4,5-Trichlorophenol	50	10
91-58-7	2-Chloronaphthalene	10	10
88-74-4	2-Nitroaniline	50	10
131-11-3	Dimethyl Phthalate	10	10
208-96-8	Acenaphthylene	10	10
606-20-2	2,6-Dinitrotoluene	10	10

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 9100_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: SBLK01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 63677

Level: (low/med) LOW

Date Received:

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Oats Analyzed: 05/08/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMFOUNO	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	10
83-32-9	Acenaphthene	10	10
51-28-5	2,4-Dinitrophenol	50	10
100-02-7	4-Nitrophenol	50	10
132-64-9	Dibenzofuran	10	10
121-14-2	2,4-Dinitrotoluene	10	10
84-66-2	Diethylphthalate	10	10
7005-72-3	4-Chlorophenyl-phenylether	10	10
80-73-7	Fluorene	10	10
100-10-6	4-Nitroaniline	50	10
534-52-1	4,6-Dinitro-2-Methylphenol	50	10
86-30-6	N-Nitrosodiphenylamine (1)	10	10
101-55-3	4-Bromophenyl-phenylether	10	10
118-74-1	Hexachlorobenzene	10	10
87-86-5	Pentachlorophenol	50	10
60-11-8	Fluoranthene	10	10
120-12-7	Anthracene	10	10
84-74-2	Di-n-Butylphthalate	10	10
206-44-0	Fluoranthene	10	10
129-00-0	Pyrene	10	10
85-68-7	Butylbenzylphthalate	10	10
91-94-1	3,3'-Dichlorobenzidine	20	10
56-55-3	Benzo(a)Anthracene	10	10
218-01-9	Chrysene	10	10
117-81-7	bis(2-Ethylhexyl)Phthalate	13	10
117-84-0	Di-n-Octyl Phthalate	10	10
295-99-2	Benzo(b)Fluoranthene	10	10
207-08-9	Benzo(k)Fluoranthene	10	10
50-32-8	Benzo(a)Pyrene	10	10
193-39-5	Indeno(1,2,3-cd)Pyrene	10	10
53-70-3	Dibenz(a,h)Anthracene	10	10
191-24-2	Benzo(g,h,i)Perylene	10	10

(1) - Cannot be separated from Diphenylamine

1F
 SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBLPM1

Lab Name: E & E INC.

Contract:

Lab Code: EANDC

Case No.: 9106_973

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: EBLPM1

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 63672

Level: (low/med) LOW

Date Received:

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/08/91

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

Number TICs found: 4

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	U
1.	UNKNOWN	9.30	90.10	
2.	UNKNOWN	19.29	9.010	
3.	UNKNOWN HYDROCARBON	24.80	5.010	
4.	UNKNOWN HYDROCARBON	27.02	79.10	

1D
PESTICIDE ORGANICS ANALYSIS DATU SHEET

EPA SAMPLE NO.

W001

Lab Name: E & E INC. Contract: _____
 Lab Code: EANDE Case No. : 973 SAS No. : _____ SDG No. : _____
 Matrix: (soil/water) WATER Lab Sample ID: 9240
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____
 Level: (low/med) LOW Date Received: 04/26/91
 % Moisture: not dec. dec. Date Extracted: 04/30/91
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/91
 SPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050U	
319-85-7	beta-BHC	0.050U	
319-86-8	delta-BHC	0.050U	
58-89-9	gamma-BHC (Lindane)	0.050U	
76-44-8	Heptachlor	0.050U	
309-00-2	Aldrin	0.050U	
1024-57-3	Heptachlor epoxide	0.050U	
959-98-8	Endosulfan I	0.050U	
60-57-1	Dieldrin	0.10U	
72-55-9	4,4'-DDE	0.10U	
72-20-8	Endrin	0.10U	
33213-65-9	Endosulfan II	0.10U	
72-54-8	4,4'-DDD	0.10U	
1031-07-8	Endosulfan sulfate	0.10U	
50-29-3	4,4'-DDT	0.10U	
72-43-5	Methoxychlor	0.50U	
53494-70-5	Endrin ketone	0.10U	
5103-71-9	alpha-Chlordane	0.50U	
5103-74-2	gamma-Chlordane	0.50U	
8001-35-2	Toxaphene	1.0U	
12674-11-2	Aroclor-1016	0.50U	
11104-28-2	Aroclor-1221	0.50U	
11141-16-5	Aroclor-1232	0.50U	
53469-21-9	Aroclor-1242	0.50U	
12672-29-6	Aroclor-1248	0.50U	
11097-69-1	Aroclor-1254	1.0U	
11096-82-5	Aroclor-1260	1.0U	

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NU.

W001D

Lab Name: E & E INC.

Contract :

Lab Code: EANOE

Case No. : 973

SAS No. :

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 9241

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

Level: (low/med) LOW

Date Received: 04/26/91

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	-----alpha-BHC	0.050 IU	
319-85-7	-----beta-BHC	0.050 IU	
319-86-8	-----delta-BHC	0.050 IU	
58-89-9	-----gamma-BHC (Lindane)	0.050 IU	
76-44-8	-----Heptachlor	0.050 IU	
309-00-2	-----Aldrin	0.050 IU	
1024-57-3	-----Heptachlor epoxide	0.050 IU	
959-98-8	-----Endosulfan I	0.050 IU	
60-57-1	-----Dieldrin	0.10IU	
72-55-9	-----4,4'-DDE	0.10IU	
72-20-8	-----Endrin	0.10IU	
33213-65-9	-----Endosulfan II	0.10IU	
72-54-8	-----4,4'-DDD	0.10IU	
1031-07-8	-----Endosulfan sulfate	0.10IU	
50-29-3	-----4,4'-DDT	0.10IU	
72-43-5	-----Methoxychlor	0.50IU	
53494-70-5	-----Endrin ketone	0.10IU	
5103-71-9	-----alpha-Chlordane	0.50IU	
5103-74-2	-----gamma-Chlordane	0.50IU	
8001-35-2	-----Toxaphene	1.0IU	
12674-11-2	-----Aroclor-1016	0.50IU	
11104-28-2	-----Aroclor-1221	0.50IU	
11141-16-5	-----Aroclor-1232	0.50IU	
53469-21-9	-----Aroclor-1242	0.50IU	
12672-29-6	-----Aroclor-1248	0.50IU	
11097-69-1	-----Aroclor-1254	1.0IU	
11096-82-5	-----Aroclor-1260	1.0IU	

3101264

1D
 PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WRB01

Lab Name: E & E INC. Contract:
 Lab Code: EANDE Case No. : 973 SAS No. : SDG No. :
 Matrix: (soil/water) WATER Lab Sample ID: 9243
 Sample wt/vol: 1000 (g/mL) ML Lab File ID:
 Level: (low/med) LOW Date Received: 04/26/91
 % Moisture: not dec. dec. Date Extracted: 04/30/91
 Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/21/91
 SPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050IU	
319-85-7	beta-BHC	0.050IU	
319-86-8	delta-BHC	0.050IU	
58-89-9	gamma-BHC (Lindane)	0.050IU	
76-44-8	Heptachlor	0.050IU	
309-00-2	Aldrin	0.050IU	
1024-57-3	Heptachlor epoxide	0.050IU	
959-98-8	Endosulfan I	0.050IU	
60-57-1	Dieldrin	0.10IU	
72-55-9	4,4'-DDE	0.10IU	
72-20-8	Endrin	0.10IU	
33213-65-9	Endosulfan II	0.10IU	
72-54-8	4,4'-DDD	0.10IU	
1031-07-8	Endosulfan sulfate	0.10IU	
50-29-3	4,4'-DDT	0.10IU	
72-43-5	Methoxychlor	0.50IU	
53494-70-5	Endrin ketone	0.10IU	
5103-71-9	alpha-Chlordane	0.50IU	
5103-74-2	gamma-Chlordane	0.50IU	
8001-35-2	Toxaphene	1.0IU	
12674-11-2	Aroclor-1016	0.50IU	
11104-28-2	Aroclor-1221	0.50IU	
11141-16-5	Aroclor-1232	0.50IU	
53469-21-9	Aroclor-1242	0.50IU	
12672-29-6	Aroclor-1248	0.50IU	
11097-69-1	Aroclor-1254	1.0IU	
11096-82-5	Aroclor-1260	1.0IU	

3101265

10
 PESTICIDE ORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

000000

E 2 E INC.

Contract:

ANALYST: BRNDB

Case No.: 973

SAS No.:

SOS No.:

Matrix: (Soil/Water) WATER

Lab Sample ID: 924103

Concentration: 1000 (g/mL) ML

Lab File ID:

Quality: (Unarmed) LOW

Date Received: 04/26/91

Label: (not dec.) dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/21/91

Residue: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L 0

000034-6	alpha-BHC	0.05010
000035-7	beta-BHC	0.05010
000036-8	delta-BHC	0.05010
000038-9	gamma-BHC (Lindane)	0.05010
000044-8	Heptachlor	0.05010
000050-2	Aldrin	0.05010
000057-3	Heptachlor epoxide	0.05010
000058-9	Endosulfan I	0.05010
000071-1	Dieldrin	0.10010
000088-9	4,4'-DDE	0.10010
000091-6	Endrin	0.10010
000103-8	Endosulfan II	0.10010
000104-9	4,4'-DDD	0.10010
000107-8	Endosulfan sulfate	0.10010
000108-9	4,4'-DDE	0.10010
000109-8	Methoxychlor	0.50010
000110-8	Endrin sulfate	0.10010
000111-9	alpha-Chlordane	0.50010
000112-2	gamma-Chlordane	0.50010
000113-2	Toxaphene	1.00010
000114-2	Aroclor-1016	0.50010
000115-2	Aroclor-1221	0.50010
000116-9	Aroclor-1232	0.50010
000117-9	Aroclor-1242	0.50010
000118-9	Aroclor-1248	0.50010
000119-1	Aroclor-1254	1.00010
000120-1	Aroclor-1260	1.00010

3101266

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 903

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 90-1780

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

Level: (low/med) LOW

Date Received: 04/25/91

% Moisture: not dec. dec.

Date Extracted: 04/31/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/22/91

GPC Cleanup: (Y/N) N

pH:

Dilution Factor: 1.00

CAS NU.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) US/L	Q
319-84-6	alpha-BHC	0.050	
319-85-7	beta-BHC	0.050	
319-86-8	delta-BHC	0.050	
58-89-9	gamma-BHC (Lindane)	0.050	
76-44-8	Heptachlor	0.050	
309-00-2	Aldrin	0.050	
1024-57-3	Heptachlor epoxide	0.050	
959-98-8	Endosulfan I	0.050	
60-67-1	Dieldrin	0.10	
72-55-9	4,4'-DDE	0.10	
72-20-8	Endrin	0.10	
13213-65-9	Endosulfan II	0.10	
71-7-8	4,4'-DDD	0.10	
1171-07-0	Endosulfan sulfate	0.10	
56-29-3	4'-DDD	0.10	
70-47-5	Methoxychlor	0.10	
67474-01-0	Endrin ketone	0.10	
5103-71-9	alpha-Chlordane	0.50	
5103-74-2	gamma-Chlordane	0.50	
8001-35-2	Toxaphene	1.0	
12674-11-2	Aroclor-1016	0.50	
11104-28-2	Aroclor-1221	0.50	
11141-16-5	Aroclor-1232	0.50	
53489-21-8	Aroclor-1241	0.50	
12672-29-6	Aroclor-1248	0.50	
11197-69-1	Aroclor-1254	1.0	
110-5-82-6	Aroclor-1260	1.0	

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3101266

FORM 1 PEST

2/87 Rev.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW1

Lab Name: E & E INC.

Contract:

Lab Code: EANDE

Case No.: 973

SWS No. :

SDG No. :

Matrix: (soil/water) WATER

Lab Sample ID: 614-165

Sample wt/vol: 1000 (g/mL) ML

Lab File ID:

Level: (low/med) LOW

Date Received:

% Moisture: not dec. dec.

Date Extracted: 04/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 05/21/91

GPC Cleanup: (Y/N) N pH: 7.0

Dilution factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050IU	
319-85-7	beta-BHC	0.050IU	
319-86-8	delta-BHC	0.050IU	
58-89-9	gamma-BHC (Lindane)	0.050IU	
76-44-8	Heptachlor	0.050IU	
309-00-2	Aldrin	0.050IU	
1024-57-3	Heptachlor epoxide	0.050IU	
959-98-8	Endosulfan I	0.050IU	
60-57-1	Dieldrin	0.10IU	
72-55-9	4,4'-DDE	0.10IU	
72-20-8	Endrin	0.10IU	
33213-65-9	Endosulfan II	0.10IU	
72-54-8	4,4'-DDD	0.10IU	
1031-07-8	Endosulfan sulfate	0.10IU	
50-29-3	4,4'-DDT	0.10IU	
72-43-5	Methoxychlor	0.50IU	
53494-70-5	Endrin ketone	0.10IU	
5103-71-9	alpha-Chlordane	0.50IU	
5103-74-2	gamma-Chlordane	0.50IU	
8001-35-2	Toxaphene	1.0IU	
12674-11-2	Aroclor-1016	0.50IU	
11104-28-2	Aroclor-1221	0.50IU	
11141-16-5	Aroclor-1232	0.50IU	
53469-21-9	Aroclor-1242	0.50IU	
12672-29-6	Aroclor-1248	0.50IU	
11097-69-1	Aroclor-1254	1.0IU	
11096-82-5	Aroclor-1260	1.0IU	