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# CONTAMINATION ASSESSMENT/ REMEDIAL ACTIVITIES INVESTIGATION RADIUM SPILL AREA (SITE 25) NAVAL AIR STATION PENSACOLA PENSACOLA, FLORIDA

## INTERIM DATA REPORT

November 1992

Contract N62467-88-C-0200

Prepared by:

Ecology and Environment, Inc.
316 South Baylen Street, Suite 670
Pensacola, Florida

Prepared for:

Southern Division Naval Facilities
Engineering Command, P.O. Box 10068
Charleston, South Carolina 29411-0068
Linda Martin

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* This Interim Data Report contains the results of the Phase I of the Contamination Assessment/Remedial Activities Investigation conducted at the Radium Spill Area (Site 25) 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 25 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 25 consists of the area surrounding the radium decontamination building (Building 780), with emphasis on the concrete-paved area east of the building where a radium spill is reported to have occurred. The results of this investigation indicate that soil and groundwater contamination are present at the site. Radium-226, metals, total recoverable petroleum hydrocarbons, polynuclear aromatic hydrocarbons, and polychlorinated biphenyls are the primary Contaminants.


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Further assessment activities are required at Site 25.

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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 Radium Spill Area (Site 25), 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 25 is located on the eastern portion of NAS Pensacola, just east of Murray Road and north of Farrar Road. Site 25 includes the area surrounding the radium decontamination building (Building 780), with emphasis on the concrete-paved area east of the building where a radium spill is reported to have occurred. A fenced helicopter scrap yard is located approximately 25 feet east of Building 780 and contains aircraft and aircraft debris. The helicopter scrap yard is unpaved and covered with interlocking, perforated metal sheets. The areas immediately north, east, and south of Building 780 are covered with concrete, and the area west of the building is covered with asphalt.

NAS Pensacola currently uses the northern end of Building 780 for radium decontamination activities and the southern end for quality assurance analyses of new oil used in aviation activities on the base (Joyner 1991). A transformer/electrical box is located east of Building 780, near the reported spill area. This transformer was recently installed to replace an old transformer.

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 a 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.

Soil and groundwater contamination are present at Site 25. The primary contaminants are radium-226, metals, total recoverable petroleum hydrocarbons (TRPHs), and polychlorinated biphenyls (PCBs). Some of the detected contamination is clearly associated with the former radium spill east of Building 780; however, additional sources of contamination are apparently impacting Site 25.

Several areas of soil contamination appear to be present. A limited area of metals contamination immediately east of Building 780 appears to be associated with the former spill (or with a transformer-related incident). Another limited area of metals contamination south of Building 780 suggests an isolated source in this area. None of the metals concentrations exceed the respective Resource Conservation and Recovery Act (RCRA) Proposed Corrective Action Levels (PCALs). In contrast, except for the area north of Building 780 and the helicopter scrap yard, low-level TRPH contamination is sporadically widespread and could reflect multiple sources. In particular, a very high level of TRPH contamination immediately west of the northern end of Building 780 suggests an isolated source in this area. A limited area of PCB contamination is present immediately east of Building 780 near the new transformer. The existing transformer does not contain PCBs, but the recently replaced transformer most likely did contain PCBs (Bell 1992). The PCB contamination in this area does exceed the RCRA PCAL for PCBs in soil. Although no evidence of spills or leaks of dielectric fluid were found, the PCB contamination is clearly associated with a transformer-related incident.

Several areas of groundwater contamination are also present. Radium-226 concentrations exceeding Florida and U.S. Environmental Protection Agency standards were widespread. The highest concentrations were detected south of Building 780 and hydraulically downgradient of both the building and the former spill area, and the lowest concentration was detected upgradient of the building, suggesting the radium-226 contamination is associated with the former spill or with past and/or present radium dial stripping activities at Building 780. Metals

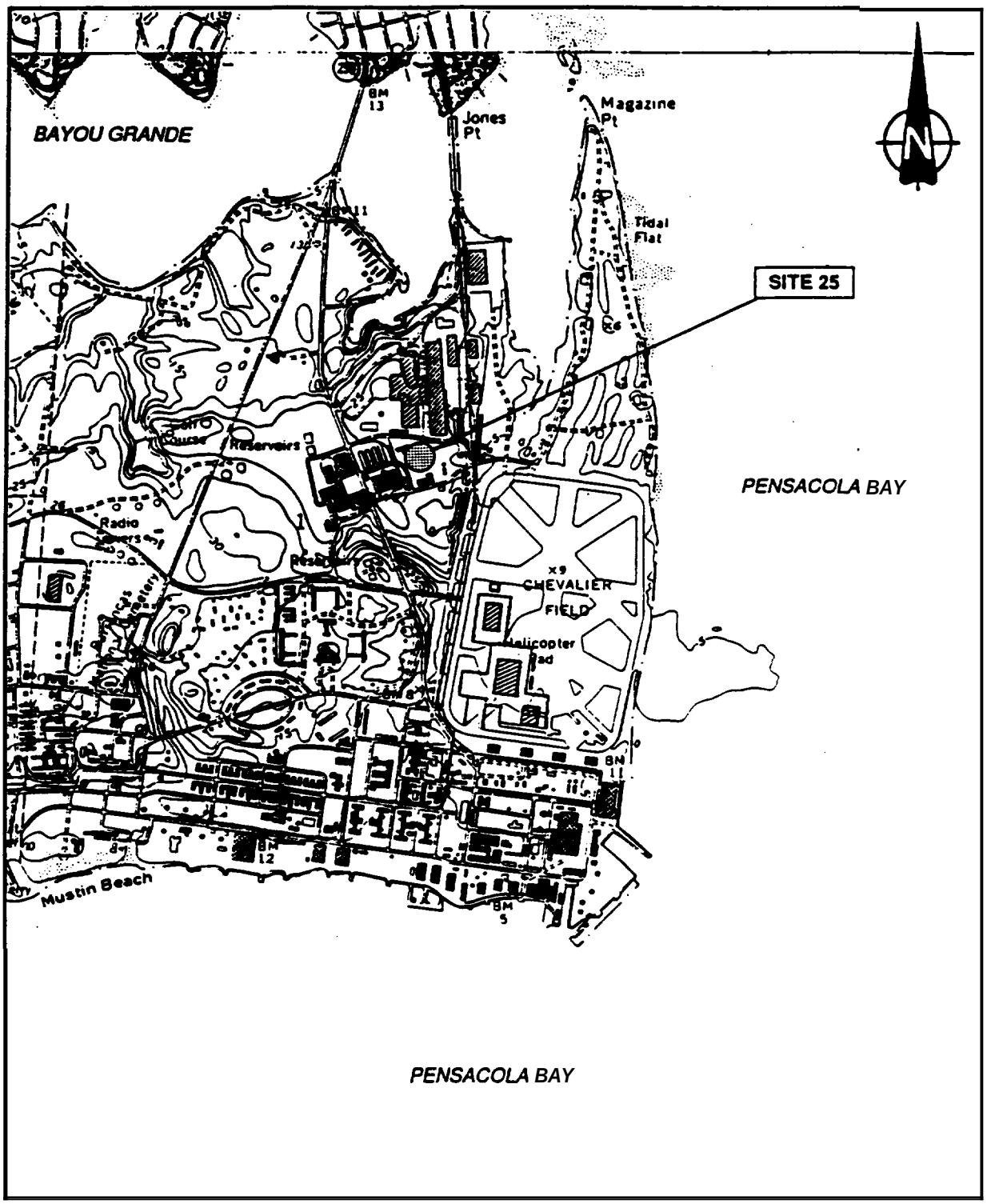
concentrations exceeding Florida standards were detected in the helicopter scrap yard and in an area south of Building 780, hydraulically downgradient of the scrap yard and former spill area. The metals contamination present in the helicopter scrap yard is possibly attributable to the weathering of metallic debris stored in the scrap yard or the interlocking metal surface covering; the area of contamination south of Building 780 may be attributable to this same process or to the former spill.

Further assessment activities are required at Site 25.

# 1. INTRODUCTION

This Interim Data Report presents the findings of the Phase I investigation activities performed for Site 25, Radium Spill Area, 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 March 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 G 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 25 is located on the eastern portion of NAS Pensacola, just east of Murray Road and north of Farrar Road (see Figure 1-1). Site 25 includes the area surrounding the radium decontamination building (Building 780), with emphasis on the concrete-paved area east of the building where a radium spill is reported to have occurred (see Figure 1-2). NAS Pensacola currently uses the northern end of Building 780 for radium decontamination activities and the southern end for quality assurance analyses of new oil used in aviation activities on the base (Joyner 1991). A transformer/electrical box is located east of the building near the reported spill area. This transformer was recently




SOURCE: U.S.G.S. 7.5 Minute Series (Topographic) Quadrangles: Fort Barrancas, FL 1970 and West Pensacola, FL 1970, Photorevised 1987

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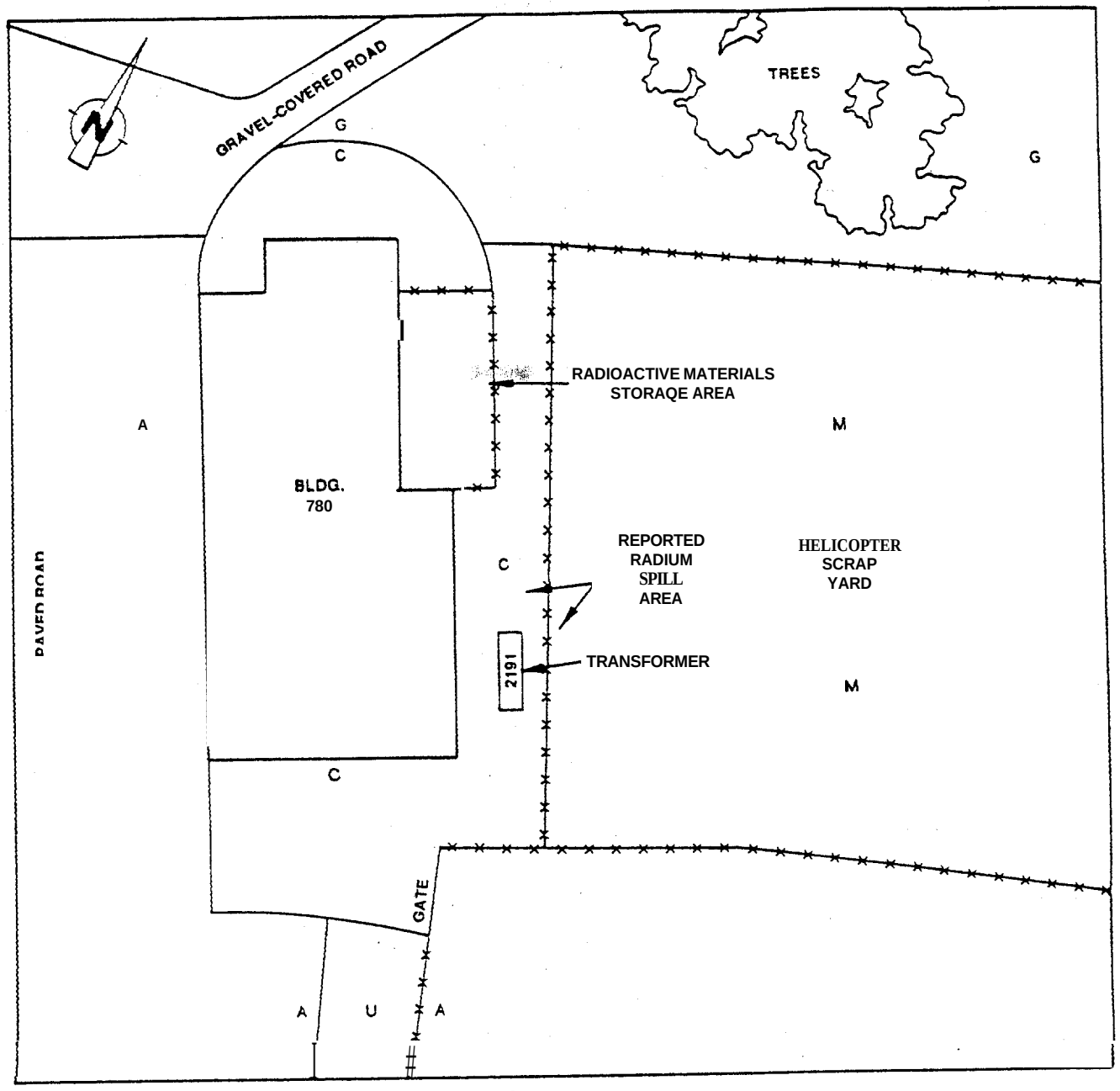
**Figure 1-1**
**LOCATION MAP — NAS PENSACOLA SITE 25**




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

SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | C | Concrete-Paved Area |
| | Trees | G | Grass-Covered Area |
| | Fence | M | Metal-Covered/Unpaved Area |
| A | Asphalt-Paved Area | U | Unpaved Area |

**Figure 1-2 SITE VICINITY MAP — NAS PENSACOLA SITE 25**

installed to replace an old transformer. A fenced helicopter scrap yard is located approximately 25 feet east of Building 780 and contains aircraft and aircraft debris. The unpaved surface of the helicopter scrap yard is covered with interlocking, perforated metal sheets. The areas immediately north, east, and south of Building 780 are covered with concrete, and the area west of the building is covered with asphalt. A complete site description and history are presented in the Group G 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 a site reconnaissance, 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 G 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 scaled to allow analysis of 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, and surface drainage patterns. These observations of surface conditions on the site were used to update the site map. Dur ng the reconnaissance survey, the field team identified areas which presented the most suitable conditions for the establishment of survey grid baselines. The use of a grid system as part of the Phase I field investigation is discussed in Section 2.4.

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. Areas with readings above background

Table 2-1

**PHOTOGRAPHS AND MAPS USED IN THE AERIAL PHOTOGRAPH ANALYSIS**
**NAS PENSACOLA SITE 25**

| Source | Photograph/Map Number | Date | Scale |
|---|---|---|---|
| NAS Pensacola Public Works Department | 1276833 | 2/5/90 | 1:2,400 |
| | 1276835 | 2/5/90 | 1:2,400 |
| | 1276836 | 5/22/86 | 1: 2,400 |
| | 1276912 | 9/29/86 | 1:2, 00 |
| Florida Department of Transportation | PD-3886-12-03 | 10/26/89 | 1:24 000 |
| | PD-3886-12-04 | 10/26/89 | 1:24 000 |
| | PD-3618-12-03 | 11/21/86 | 1:24 000 |
| | PD-3618-12-04 | 11/21/8 6 | 1:24,000 |
| | PD-3109-12-03 | 9/22/83 | 1:24,000 |
| | PD-3109-12-04 | 9/22/83 | 1:24,000 |
| | PD-2684-11-04 | 3/9/81 | 1:24,000 |
| | PD-2684-11-05 | 3/9/81 | 1:24,000 |
| | PD-1888-11-03 | 4/28/76 | 1:24,000 |
| | PD-1888-11-04 | 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-616-8-04 | 3/25/68 | 1:24,000 |
| | PD-616-8-05 | 3/2 5/6 8 | 1:24,000 |
| | PD-285-8-03 | 10/8/64 | 1:12,000 |
| | PD-285-7-01 | 10/8/64 | 1:12,000 |
| | PAS-7054-3-1 | 10/12/61 | 1:24,000 |
| | PNS-7054-2-1 | 10/12/61 | 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 |
| West Florida Regional Planning Council | PD-3618-12-05 | 11/21/86 | 1:4,800 |

14[NASP]UH8027:T0359/548/23

Source: Ecology and Environnont, Inc., 1991.

were located, flagged, and identified on a site map for future reference. All findings of the physical reconnaissance were mapped in detail and recorded in the field logbook.

## 2.3 OVA SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SCREENING

Following the establishment of the survey grid network (discussed in Section 2.4), 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. Figure **2-1** shows the particulate air screening locations at Site 25.

## 2.4 RADIATION SURVEY

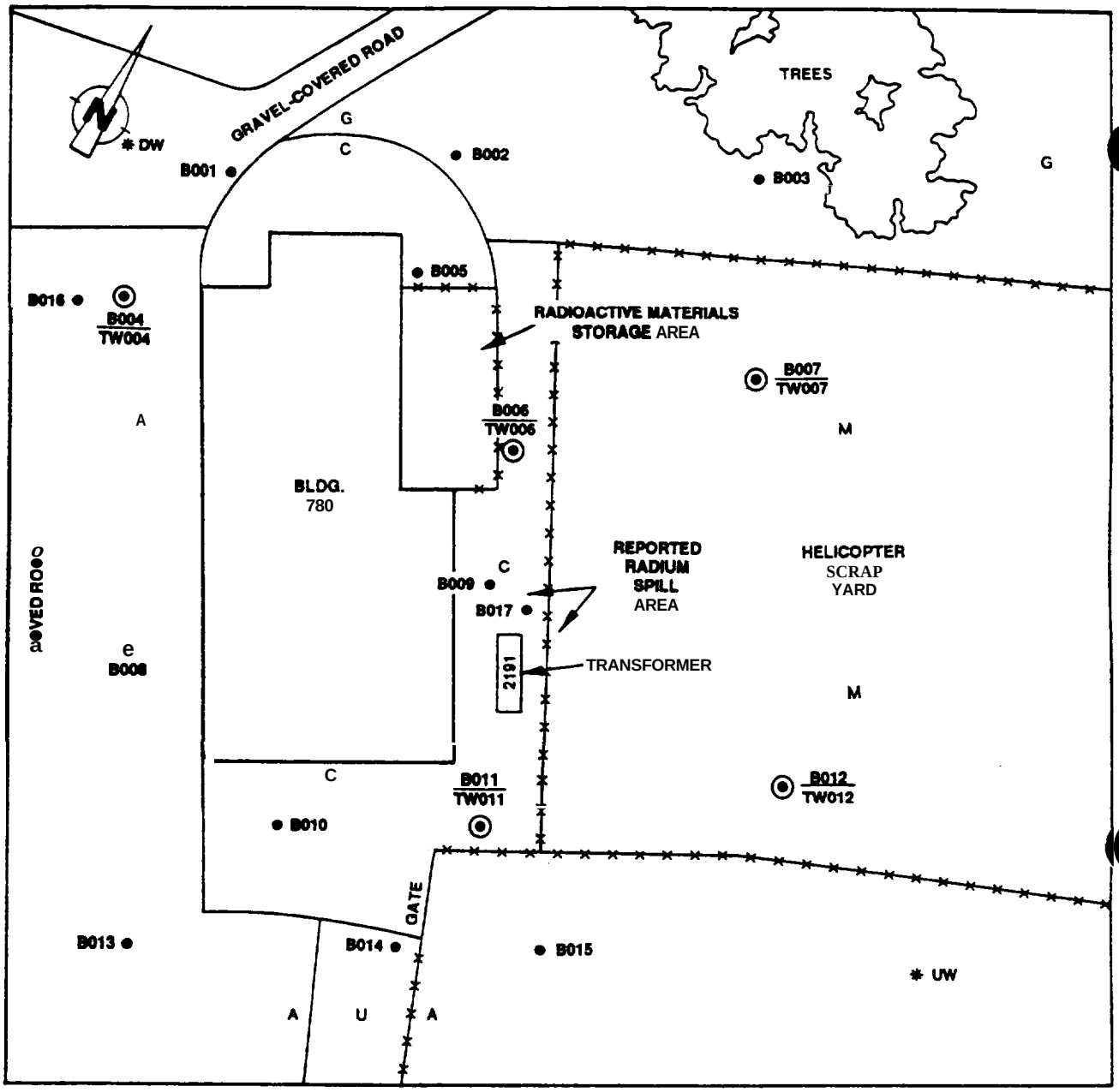
Following the establishment of the survey grid network described in this section, a radiation survey was conducted at Site 25 using a Bicron Micro-R-meter and an Eberline ESP-2 gamma scintillator with an attached 2-inch sodium iodide (NaI) probe. The survey was conducted in accordance with Section **6.3.6** of the GQAPP.

The survey effort required the initial establishment of a grid system over the study area. Grid baselines were set up at the site perimeters, and the site was gridded with spacings based on 25-foot centers. Baseline transects were established using an automatic level survey instrument and were painted or flagged at 25-foot intervals. The internal grid points were referenced to an arbitrarily established origin point on the baseline transects using the automatic level and a tape measure. Grid points were flagged or painted 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;




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

SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | U | Unpaved Area |
| | | e | Soil Boring |
| —x—x— | Fence | ○ | Temporary Monitoring Well |
| A | Asphalt-Paved Area | B006 | Soil Boring Number |
| C | Concrete-Paved Area | TW006 | Temporary Monitoring Well Number |
| G | Grass-Covered Area | * | Particulate Air Screening Location |
| M | Metal-Covered/Unpaved Area | DW/UW | Downwind/Upwind |

**Figure 2-1 PARTICULATE AIR SCREENING, SOIL BORING, AND TEMPORARY MONITORING WELL LOCATIONS - NAS PENSACOLA SITE 25**

$n_2$ = 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 2-2 shows the location of the survey grid and origin point established on Site 25.

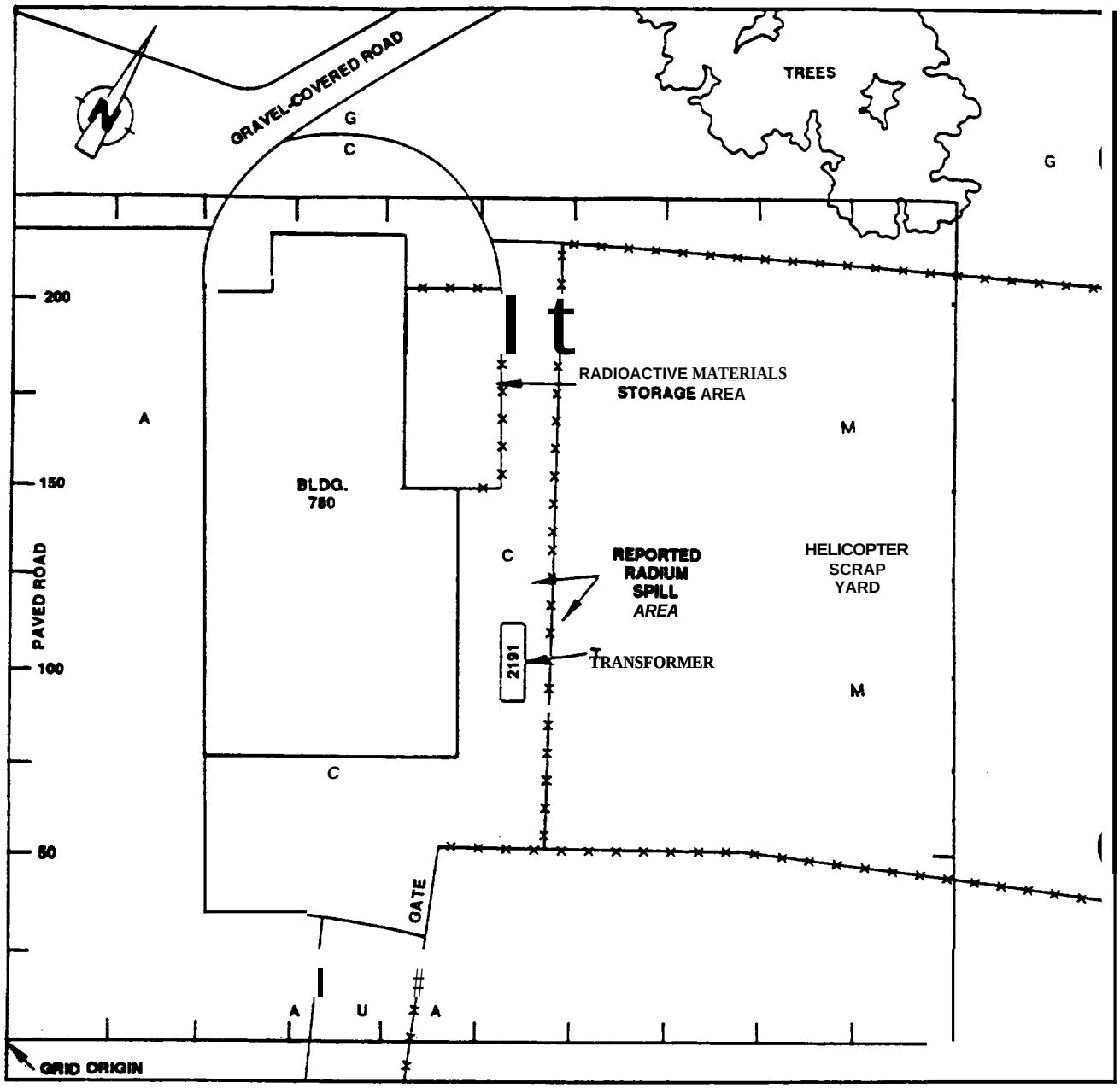
The radiation survey was conducted by obtaining measurements at each 25-foot-interval grid coordinate and by thoroughly scanning the areas between grid coordinates. Readings for each grid coordinate, as well as any readings above background between grid coordinates, were recorded on radiation survey forms. The gamma scintillator reads radiation levels in counts per minute (cpm); these levels 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 Micro-R-meter reads radiation levels in microRoentgens per hour (μR/hr).

## 2.5 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 potential 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.

## 2.6 DATA ANALYSIS

Information obtained from the results of the above-described physical surveys was given primary consideration in the development of




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

SCALE

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KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | G | Grass-Covered Area |
| | Trees | M | Metal-Covered/Unpaved Area |
| | Fence | U | Unpaved Area |
| A | Asphalt-Paved Area | | Survey Grid Boundary |
| C | Concrete-Paved Area | | |

Figure 2-2 SURVEY GRID MAP — NAS PENSACOLA SITE 25

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 any areas of stressed vegetation. The proposed Phase I temporary monitoring well locations and other sampling points, shown on Figure *14-2* of the work plan, were then revised, as appropriate upon approval by Southern Division.

## 2.7 SOIL HEADSPACE SURVEY

In conjunction with soil sampling, a soil headspace survey was conducted in accordance with the procedures described in Section 6.4 of the GQAPP. The purpose of the soil headspace survey vas to screen €or radioactive samples to be sent for Target Analyte List (TAL)/Target Compound List (TCL) analyses to Controls for Environmental Pollution (CEP), a licensed mixed-waste laboratory located in Santa Fe, New Mexico. As will be discussed in the following sections, no soil samples exceeded the 2 times background radiation levels that would require the samples be analyzed by CEP. Therefore, the samples were analyzed for the screening parameters by E & E's Analytical Services Center (ASC) in Buffalo, New York, and for radium-226 by CEP.

Sample aliquots were composited from each soil sampling interval using stainless steel implements. The composite samples were then sealed in 16-ounce jars, leaving a headspace volume of approximately *50%.* After the samples equilibrated to a temperature between approximately 20°C and 30°C, an OVA was employed to determine the total organic vapor concentration in the soil. In addition, a granular activated carbon filter was attached to the OVA to screen each sample for the presence of methane. All OVA readings, filtered and unfiltered, as well as the temperature of each composite sample measured at the time of the OVA headspace analysis, were recorded in the field logbook. Equipment decontamination was performed in accordance with Section 6.10 of the GQAPP.

## 2.8 SOIL BORINGS AND TEMPORARY MONITORING WELL INSTALLATION

Seventeen soil borings were completed at Site 25 (see Figure 2-1). Prior to drilling a soil boring, intensive radiation monitoring was conducted for the sample area, in accordance with Section 6.3.7 of the GQAPP. At each boring location, soil samples were collected by compositing soils over 5-foot depth intervals from land surface to the water table, with the exception of borings B016 and B017 which were completed only to 5 feet below land surface (BLS). Each 5-foot depth interval was assigned a letter designation as follows: A interval = surface to 5 feet 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 soil 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 five of the 17 borings (see Figure 2-1). Each well was constructed with 5 feet of 0.01-inch slot, continuously 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.

## 2.9 SOIL SAMPLING

Forty-eight soil samples, plus two duplicate samples, were collected as described in Section 2.8, in accordance with Section 6.6.2 of the GQAPP. Soil samples were shipped to E 6 E's ASC and analyzed for the screening parameters listed in Table 2-2. In addition, split soil samples from each sample interval were collected and shipped to CEP and analyzed for radium-226. Each sample was screened for radiation prior to sample shipment using a Surveyor-M ratemeter with an attached 1-inch NaI probe.

**Table 2-2**

**SAMPLING AND ANALYTICAL SUMMARY**
**IUS PENSACOLA SITE 25**

| Medium | No. of Samples | Duplicates | Total | Analytical Suite[a,b] |
|---|---|---|---|---|
| Soil | 48 | 2 | 50 | A |
| Groundwater[c] | 5 | 1 | 6 | A |

[NASP]UH8027:T0359/549/31

**Key:**

'Analytical suite dosignation is as follows:

A = Volatile organic compounds (VOCs) including chlorobonzone, polynuclear aromatic hydrocarbons (PAHs), phenols, pesticides and total polychlorinatod biphenyls (PCBs), total recoverable petroleum hydrocarbons (TRPHs), metals (total, unfiltered), pH, radium-226, and gross alpha (for groundwator samples only).

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

'Groundwater samples and analyses shown are for temporary wells only.

Source: Ecology and Environment, Inc., 1991.

## 2.10 GROUNDWATER SAMPLING

Five groundwater samples, plus one duplicate sample, were collected from the five temporary monitoring wells shown on Figure 2-1. 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 vas 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. All groundwater samples collected from the temporary monitoring wells were shipped to E & E's ASC and analyzed for the screening parameters (except radium-226 and gross alpha) listed in Table 2-2. Split groundwater samples were collected from each well and shipped to CEP and analyzed for radium-226 and gross alpha. Each sample was screened for radiation prior to sample shipment using a Surveyor-M ratemeter with an attached 1-inch NaI probe.

## 2.11 HYDROLOGIC ASSESSMENT

The hydrologic assessment of the site and surrounding areas included a wellhead elevation survey of the temporary monitoring wells, static water level measurements, and the determination of water level elevations in the temporary monitoring wells. The static water level data were used to determine the groundwater flow direction and hydraulic gradient for the shallow surficial zone of the Sand-and-Gravel Aquifer in the site vicinity.

Wellhead top-of-casing (TOC) elevations for the temporary monitoring wells were measured relative to the top of a driven reference stake or painted reference mark located adjacent to each well using a spirit level and tape measure. Following groundwater sampling and removal of the temporary monitoring wells, the elevations of the driven reference stakes or reference marks were surveyed using an automatic level with reference to U.S. Geological Survey (USGS) benchmark no. N26,

elevation 27 feet above mean sea level (MSL). Benchmark N26 is located approximately 700 feet west of the site near the northeast corner of Building 649.

## 2.12 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.

### 2.12.1 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 or CEP for analysis. Sample management was performed as specified in Section 7 of the GQAPP. The collected field QA/QC samples and corresponding analytical parameters are listed in Table 2-2.

### 2.12.2 Decontamination Procedures

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

## 2.13 INVESTIGATION-DERIVED WASTE MANAGEMENT

Excess soil generated during soil boring and temporary monitoring well installation activities was temporarily contained adjacent to the boring or well 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 development and purging of the temporary monitoring wells was temporarily contained adjacent to the well and then discharged 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, labeled, and moved to a central area on or near the site or decontamination area. These drums are sealed and labeled "trash." 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

Review of the January 22, 1951, aerial photograph of the present site area indicated that it was covered with open grassy areas and a few trees. Building 780, the present building on the site, had not yet been constructed. The north-south oriented road currently located along the western portion of the site, as well as the gravel road to the north, existed and appeared to be in use in 1951.

Review of the January 3, 1958, aerial photograph of the site indicated that a building existed in the present location of Building 780. This structure appears slightly smaller than the present Building 780. The remainder of the site was covered with open grassy areas and trees.

The October 12, 1961, aerial photographs of the site indicate that some small features, possibly drums, were located around Building 780. A number of airplanes and some aircraft parts were present east of the building, in the present location of the helicopter scrap yard (see Figure 1-2). The surface coverage appeared to be uniform over most of the site, and some areas appeared to be covered with grass. This uniform coverage in the area of the helicopter scrap yard might be the interlocking metal sheets which currently cover the area.

Review of the October 8, 1964, aerial photographs of the site indicated that the building at the site appeared to be the size of the present Building 780. A larger number of airplanes are present east of Building 780. No visual evidence of staining or stressed vegetation was noted.

No obvious changes in site features were noted in subsequent aerial photographs through 1989. Throughout the years, varying amounts of aircraft debris were located in the area of the present helicopter scrap

yard. The surface coverage of the scrap yard appeared to be uniform (perhaps covered by the present interlocking metal sheets). No obvious evidence of leaks or possible spills of wastes was noted in any of the aerial photographs.

## 3.2 SITE RECONNAISSANCE

During the site reconnaissance, visual inspections were performed around Building 780 and in and around the helicopter scrap yard. Currently, Building 780 contains radioactive materials, and radioactive material caution signs are located on the doors of the building. An approximately 20-foot by 50-foot area at the northeast corner of the building is fenced (see Figure 1-2) and is marked by a sign in the northwest corner as "Radiation Area." This area contains several 55-gallon drums with labels identifying the contents as radioactive material. Several other 55-gallon drums, one of which was labeled as containing waste oil and another as containing trichloroethane, were randomly placed inside the storage area. The materials contained in these drums are likely associated with the quality assurance analyses of new oil used in aviation activities on the base, currently conducted in Building 780. No visual evidence of leaks or spills from any of these drums was noted; however, the reconnaissance team did not physically enter the storage area.

The area immediately east of the southeast corner of Building 780 is no longer fenced as originally indicated in the work plan for this project. A transformer/electrical box is located in this area and is placed on a newly poured concrete pad. This transformer was recently installed to replace an old transformer. Although it is highly likely that the former transformer contained dielectric fluids which contained PCBs, the new transformer does not contain PCBs (Bell 1992). An electrical power pole is located approximately 8 feet from the transformer. The base of this pole is set in an unpaved area. No visual evidence of leaks or spills of hazardous materials was noted in the general area of the transformer/electrical box.

The helicopter scrap yard is fenced and is located east of Building 780 (see Figure 1-2). The majority of this area is covered with an

interlocking, perforated metal ground covering with various helicopter and aircraft parts randomly situated throughout the yard.

No elevated radiation levels or organic vapor concentrations were detected with the HNu or the radiation alert dosimeter during the reconnaissance.

### 3.3 SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SCREENING

During the performance of the surface emissions survey, no OVA readings above background (5.2 parts per million [ppm] organic vapors) were detected at any of the grid coordinates. Background OVA readings were recorded in the field logbooks. Grid coordinates and corresponding surface emissions survey readings are presented in Appendix A.

On June 5, 1991, a Mini-Ram particulate air monitoring device was used to determine if Site 25 could represent a source of particulates in the air. Figure 2-1 presents the particulate air screening locations at Site 25. During the test, the wind was from the southeast at approximately 3 to 5 miles per hour. The Mini-Ram was placed upwind (UW) near the southeast corner of the site. After five minutes, the time weighted average (TWA) of particulates was 0.05 milligram per cubic meter ($mg/m^3$). The Mini-Ram was then placed downwind (DW) of the upwind station at the northwest corner of the site, approximately 300 feet from the upwind monitoring location. After a period of five minutes, the TWA was recorded as 0.08 $mg/m^3$. Based on these results, the site does not appear to be a significant source of particulates. The particulate air screening data is included in Appendix B.

### 3.4 RADIATION SURVEY

For the purpose of this report, elevated gamma radiation levels will be defined as those readings that are at least 2 times the background radiation levels. The background radiation readings during the radiation survey at Site 25 were measured near Building 1741, approximately 1 mile southwest of the site. Using the ESP-2 gamma scintillator, background gamma radiation levels for NAS Pensacola during the radiation survey at Site 25 ranged from approximately 23,300 dpm to 26,700 dpm with the probe 1 meter above the ground surface and 26,700

dpm to 27,300 dpm with the probe at the ground surface. The background gamma radiation level detected for NAS Pensacola using the Bicron Microanalyst was 1 µR/hr.

Elevated gamma radiation levels were detected at 13 grid locations at the site with at least one of the survey instruments. Figure 3-1 shows the locations of these elevated readings, and Appendix C lists the grid coordinates, the corresponding radiation levels for each coordinate as detected with the ESP-2 gamma scintillator at ground surface, and all elevated readings detected between grid coordinates.

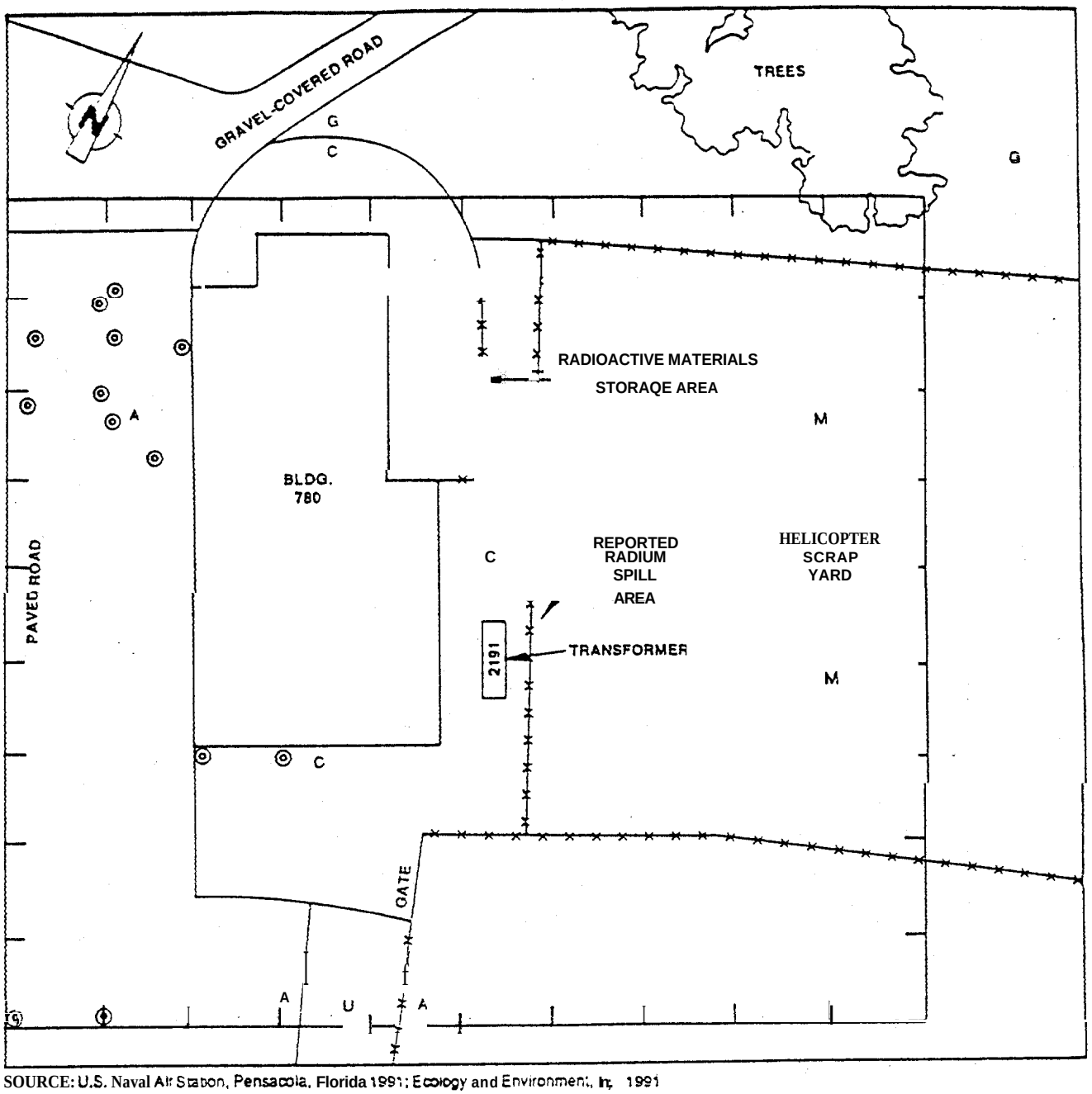
Two elevated readings (51,333 dpm and 53,333 dpm) were detected using the ESP-2 at the ground surface in the southwest corner of the site near the grid origin, and two were detected along the southern wall of Building 780 (see Figure 3-1). The remainder of the elevated readings were detected in the northwest portion of the site, near the northwest corner of Building 780. Consistent readings of approximately 66,000 dpm to 80,000 dpm were detected with the ESP-2 at the ground surface in a linear trend from the northwest corner of Building 780 west to the western border of the site. Given that some asphalt may contain rock fragments that include naturally occurring radioactive minerals, the elevated readings at Site 25 may be due to the asphalt underlying the general area of elevated radiation levels.

No elevated radiation levels were detected in the helicopter scrap yard or near the area east of Building 780 where the radioactive material spill is reported to have occurred. However, because the former spill area is presently overlain by a concrete pad, actual soil radiation levels might have been inhibited by the overlying concrete.

## 3.5 HYDROLOGIC ASSESSMENT

### 3.5.1 Shallow Subsurface Lithology

Based on information collected during the completion of the 17 boreholes, the shallow subsurface lithology beneath Site 25 can be generally characterized as a light brown to tan, medium- to coarse-grained quartz sand that becomes pale tan to cream, medium- to coarse-grained quartz sand near the water table. Approximately half of the borings at the site contained a thin layer of reddish-brown, silty, sandy fill material or a layer of gray sand with gravel and/or shell




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

SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | G | Grass-Covered Area |
| | Trees | M | Metal-Covered/Unpaved Area |
| | Fence | U | Unpaved Area |
| A | Asphalt-Paved Area | ⊙ | Radiation Readings at least 2x Background |
| C | Concrete-Paved Area | | |

**Figure 3-1 RADIATION SURVEY MAP — NAS PENSACOLA SITE 25**

fragments in the upper 6 inches. Appendix D presents the lithologic logs for the 17 soil borings completed at Site 25. The OVA readings taken in the open boreholes during drilling ranged from 0 to 6 ppm. The OVA readings for the open boreholes are also presented in Appendix D.

### 3.5.2 Water Levels and Groundwater Plov

Table 3-1 lists the water level elevations measured in the temporary monitoring wells at Site 25. All of the water elevation measurements were collected on June 21, 1991. Based on measurements obtained from the soil borings and temporary monitoring wells, the depth to the water table at the site ranges from approximately 13 to 16 feet BLS.

Figure 3-2 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 25. Based on the groundwater elevations, the direction of shallow groundwater flow east of Building 780 appears to be south, southeast, and east toward temporary monitoring well TW011. It is primarily influenced by a relatively high area centered around TU006 and a relatively low area centered around TW011. It is notable that the groundwater elevation at TW011 was 6.5 feet above HSL, considerably lower than the groundwater elevations measured in surrounding wells. The physical survey and subsurface lithologic data provide no evidence as to why this area should exhibit such a relatively low groundwater elevation; however, a below-grade lift station sump pump associated with the industrial waste sewer line is located approximately 175 feet west-southwest of TW011, and this pump is activated when the sump is filled. A leak in the sump line or the sewer line could create the potential for the pumping to have a local drawdown effect on groundwater elevations.

It should also be noted that the groundwater flow direction in the surficial zone of the Sand-and-Gravel Aquifer at sites 27, 30, and 31, which are immediately adjacent to or near Site 25, is consistently in a southeasterly direction (E & E 1991a, 1991b, and 1991c). The horizontal hydraulic gradient east of Building 780 is 0.0095 to the south (based on head differences between TU006 and TW011) and 0.0071 to the west (based on head differences between TW011 and TW012).

Table 3-1

TEMPORARY MONITORING WELL CONSTRUCTION INFORMATION
AND WATER LEVEL ELEVATIONS
NAS PENSACOLA SITE 25

| Well Number | Total Depth (BLS) | Depth to Water (BLS) | Depth to Water BTOC | TOC Elevation | Water Level Elevation | Date Ueasured |
|---|---|---|---|---|---|---|
| TW004 | 17.55 | 13.22 | 15.62 | 22.79 | 7.17 | 6/21/91 |
| TW006 | 18.07 | 14.47 | 16.33 | 23.72 | 7.39 | 6/21/91 |
| TW007 | 17.81 | 13.99 | 16.18 | 23.33 | 7.15 | 6/21/91 |
| Two11 | 18.29 | 14.60 | 16.36 | 22.81 | 6.45 | 6/21/91 |
| TW012 | 18.29 | 14.20 | 15.91 | 22.94 | 7.03 | 6/21/91 |

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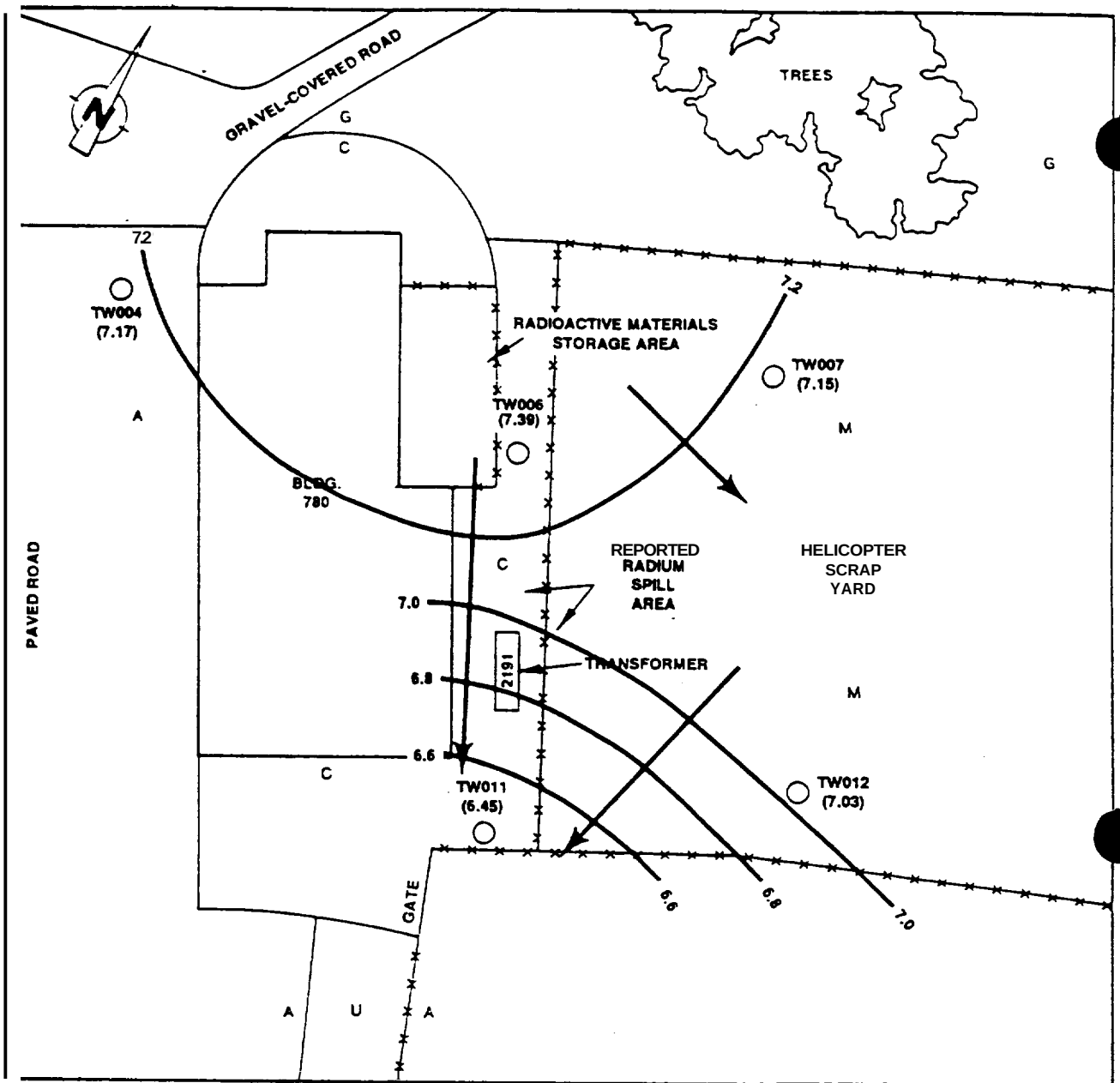
Notes:

All depths are in feet; all elevations are in feet referenced to m a n sea level (MSL); and all wells were constructed of 2-inch diameter stainless steel with 5 feet of 0.01-inch screen.

Key:

BLS = Below land surface.
TOC = Top of casing.
BTOC = Below top of casing.

Source: Ecology and Environment, Inc., 1991.




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

SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | M | Metal-Covered/Unpaved Area |
| | Trees | U | Unpaved Area |
| | Fence | | Temporary Monitoring Well |
| A | Asphalt-Paved Area | TW006 | Temporary Monitoring Well Number |
| C | Concrete-Paved Area | 7.0 | Surficial Zone Water Level Elevation Isopleth (feet above MSL) |
| G | Grass-Covered Area | (7.39) | Surficial Zone Water Level Elevation (feet above MSL) |
| | | | Groundwater Flow Direction |

**Figure 3-2 SURFICIAL ZONE WATER LEVEL ELEVATIONS FOR TEMPORARY MONITORING WELLS — NAS PENSACOLA SITE 25**

## 3.6 SOIL HEADSPACE SURVEY

The results of the soil headspace survey conducted during drilling indicate that elevated organic vapor concentrations occurred in the A and B sampling depth intervals (0 to 5 feet BLS and 5 to 10 feet BLS, respectively) of only one boring, B010. Both of these samples (S010A and S010B) exhibited identical OVA readings of 0.5 ppm without the charcoal filter and 0 ppm with the charcoal filter, indicating the presence of a non-methane organic vapor. This slightly elevated reading may be indicative of low-level organic contamination in the upper 10 feet of soil. Elevated headspace readings were not detected from the soil samples from any other borings at the site. Where the unfiltered readings were 0 ppm, no filtered readings were taken. The soil headspace results are presented in Appendix E.

## 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 radiochemical and analytical screening results for soil samples collected at Site 25 and presents the Resource Conservation and Recovery Act (RCRA) Proposed Corrective Action Levels (PCALs) for soils. Figure 2-1 shows the boring locations at the site. The complete radiochemical analytical results for soil samples are presented in Appendix F, and the complete analytical screening results for soil samples are presented in Appendix G.

All soil samples collected from Site 25 were analyzed for pH. The pH levels in soil samples ranged from 3.8 to 9.5. These levels are within normal, expected ranges and are not considered hazardous under the RCRA.

In general, low radium-226 levels and elevated metal, total recoverable petroleum hydrocarbon (TRPH), polynuclear aromatic hydrocarbon (PAH), and polychlorinated biphenyl (PCB) concentrations were detected in one or more of the soil samples collected at Site 25.

**Table 3-2**

**SUMMARY ANALYTICAL SCREENING RESULTS FOR SOIL SAMPLES**
**NAS PENSACOLA SITE 25**
**(All results in mg/kg, unless noted)**

| Parameter | Detection Limit | Sample Number (Location and Depth Interval) | | | | | | | | | | PCAL[a] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P25S001A (B001A) | P25S001B (B001B) | P25S001C (B001C) | P25S002A (B002A) | P25S002B (B002B) | P25S002C (B002C) | P25S003A (B003A) | P25S003B (B003B) | P25S003C (B003C) | P25S004A (B004A) | |
| Radium-226 (pCi/g) | 0.5 | — | — | — | 2.9±0.4 | 2.1±0.3 | — | — | — | — | — | |
| Chromium | 1.0 | 1.1 | — | — | — | — | — | 1.2 | — | — | 1.1 | $4 \times 10^2$ |
| Zinc | 2.0 | — | — | — | 2.7 | 3.4 | 10 | 3.1 | — | — | 4.0 | $4 \times 10^3$ |
| Lead | 4.0 | — | — | — | — | — | — | — | — | — | 7.9 | |
| Cadmium | 0.5 | — | — | — | — | — | 0.55 | — | — | — | — | $4 \times 10^1$ |
| Copper | 2.5 | — | — | — | — | — | — | — | — | — | — | $4 \times 10^2$ |
| TRPHs | 5.0 | — | — | — | — | — | — | — | 5.2 | — | — | |
| Total PAHs as Benzo-a-pyrene (μg/kg) | 1,000 | — | — | — | — | — | — | — | — | — | — | |
| Total PCBs (μg/kg) | 5,000 | — | — | — | — | — | — | — | — | — | — | $9 \times 10^1$ |
| pH (units) | NA | 6.1 | 7.1 | 6.2 | 7.1 | 8.1 | 1.9 | 7.7 | 6.9 | 6.5 | 4.1 | |

14[NASP]UH8027:T0359/652/0

Key at end of Table.

**Table 3-2 (Cont.)**

| Parameter | Detection Liait | Sample Number (Location and Depth Interval) | | | | | | | | | | PCAL[a] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P25S004B (B004B) | P25S004C (B004C) | P25S005A (B005A) | P25S005B (B005B) | P25S005C (B005C) | P25S006A (B006A) | P25S006B (B006B) | P25S006C (B006C) | P25S007A (B007A) | P25S007B (B007B) | |
| Radium-226 (pCi/g) | 0.5 | — | — | — | — | — | — | — | — | — | — | |
| Chromium | 1.0 | — | — | 1.1 | 1.0 | — | 1.4 | — | — | — | — | $4 \times 10^2$ |
| Zinc | 2.0 | — | — | 2.8 | — | — | 5.3 | — | — | — | — | $4 \times 10^3$ |
| Lead | 4.0 | — | — | — | — | — | — | — | — | — | 8.5 | |
| Cadmium | 0.5 | — | — | — | — | — | — | — | — | — | — | $4 \times 10^1$ |
| Copper | 2.5 | — | — | — | — | — | — | — | — | — | — | $4 \times 10^2$ |
| TRPHs | 5.0 | — | 5.7 | 56 | — | — | — | — | 95 | — | — | |
| Total PAHs as Benzo-a-pyrene (μg/kg) | 1,000 | — | — | — | — | — | — | — | — | — | — | |
| Total PCBs (μg/kg) | 5,000 | — | — | — | — | — | — | — | — | — | — | $9 \times 10^1$ |
| pH (units) | NA | 5.4 | 6.2 | 6.9 | 7.1 | 6.7 | 9.5 | 8.6 | 6.7 | 6.4 | 6.3 | |

14[NASP]UH8027:T0359/652/0

Key at end of Table.

**Table 3-2 (Cont.)**

| Parameter | Detection Limit | Sample Number (Location and Depth Interval) | | | | | | | | | | PCAL[a] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P25S007C (B007C) | P25S008A (B00M) | P25S008B (B008B) | P25S008C (B008C) | P25S009A (B009A) | P25S009B (B009B) | P25S009C (B009C) | P25S009D (B009D) | P25S010A (B010A) | P25S010B (B010B) | |
| Radium-226 (pCi/g) | 0.5 | — | — | — | — | — | — | — | — | — | 0.2±0.1 | |
| Chromium | 1.0 | — | 2.1 | — | — | 2.0 | — | — | — | 64 | 4.5 | $4 \times 10^{2}$ |
| Zinc | 2.0 | — | 5.4 | 2.9 | — | 22 | 4.6 | — | — | 50 | 8.4 | $4 \times 10^{3}$ |
| Lead | 4.0 | — | — | — | — | — | — | — | — | 160 | 10 | |
| Cadmium | 0.5 | — | — | — | — | — | — | — | — | — | — | $4 \times 10^{1}$ |
| Copper | 2.5 | — | — | — | — | 3.3 | — | — | — | — | — | $4 \times 10^{2}$ |
| TRPHs | 5.0 | — | — | 20 | 7.1 | — | — | — | — | 28 | 5.0 | |
| Total PAHs as Benzo-a-pyrene (μg/kg) | 1,000 | — | — | — | — | — | — | — | — | — | — | |
| Total PCBs (μg/kg) | 5,000 | — | — | — | — | (L) | (L) | (L) | (L) | — | — | $9 \times 10^{1}$ |
| pH (units) | NA | 3.8 | 4.9 | 4.9 | 6.2 | 8.1 | 7.5 | 7.3 | 6.3 | 7.7 | 6.8 | |

14[NASP]UH8027:T0359/652/0

Key at end of Table.

**Table 3-2 (Cont.)**

| Parameter | Detection Limit | Sample Number (Location and Depth Interval) | | | | | | | | | | PCAL[a] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P25S010C (B010C) | P25S011A (B011A) | P25S011B (B011B) | P25S011C (B011C) | P25S012A (B012A) | P25S012B (B012B) | P25S012C (B012C) | P25S013A (B013A) | P25S013B (B013B) | P25S013C (B013C) | |
| Radium-226 (pCi/g) | 0.5 | 0.5±0.2 | — | — | — | — | — | — | 0.2±0.1 | — | — | |
| Chromium | 1.0 | 2.8 | 1.6 | — | — | 1.6 | — | — | — | — | — | $4 \times 10^{2}$ |
| Zinc | 2.0 | 7.7 | 10 | 3.2 | — | 10 | — | — | — | 2.6 | 8.3 | $4 \times 10^{3}$ |
| Lead | 4.0 | 9.6 | 6.8 | — | — | 15 | — | — | — | — | — | |
| Cadmium | 0.5 | — | — | — | — | — | — | — | — | — | — | $4 \times 10^{1}$ |
| Copper | 2.5 | — | — | — | — | — | — | — | — | — | — | $4 \times 10^{2}$ |
| TRPHs | 5.0 | 11 | — | — | 7.9 | — | — | — | 8.4 | 10 | 10 | |
| Total PAHs as Benzo-a-pyrene (μg/kg) | 1,000 | — | — | — | — | — | — | — | — | — | — | |
| Total PCBs (μg/kg) | 5,000 | — | — | — | — | — | — | — | — | — | — | $9 \times 10^{1}$ |
| pH (units) | NA | 8.2 | 7.2 | 7.2 | 1.5 | 6.8 | 6.5 | 7.0 | 5.7 | 5.1 | 6.9 | |

14[NASP]UH8027:T0359/652/0

Key at end of Table.

**Table 3-2 (Cont.)**

| Parameter | Detection Limit | Sample Number (Location and Depth Interval) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P25S014A (B0014A) | P25S014B (B014B) | P25S014C (B014C) | P25S015A (B015A) | P25S015B (80158) | P25S015C (B015C) | P25S016A (B016A) | P25S016AD[b] (B016A) | P25S017A (B017A) | P25S017AD[c] (B017A) | PCAL[a] |
| Radium-226 (pCi/g) | 0.5 | — | — | — | — | — | — | — | — | — | — | |
| Chromium | 1.0 | — | — | — | 1.2 | — | — | 2.1 | 3.7 | 4.7 | 4.4 | $4 \times 10^2$ |
| Zinc | 2.0 | 3.4 | 3.2 | — | 2.2 | — | — | 2.0 | 2.0 | 310 | 300 | $4 \times 10^3$ |
| Load | 4.0 | 5.6 | — | — | — | — | — | 9.1 | 7.5 | 24 | 38 | |
| Cadmium | 0.5 | 0.56 | | — | — | — | — | — | — | 0.92 | 1.4 | $4 \times 10^1$ |
| Copper | 2.5 | — | — | — | — | — | — | — | — | 7.0 | 9.3 | $4 \times 10^2$ |
| TRPHs | 5.0 | 13 | — | — | 16 | — | — | 290 | 290 | 42 | 28 | |
| Total PAHs as Benzo-a-pyrene (μg/kg) | 1,000 | — | — | — | — | — | — | — | — | (L) | (L) | |
| Total PCBs (μg/kg) | 5,000 | — | — | — | — | — | — | — | — | 8,400 | 14,000 | $9 \times 10^1$ |
| pH (units) | NA | 8.6 | 8.5 | 8.4 | 7.5 | 7.4 | 7.6 | 8.2 | 8.3 | 1.9 | 7.8 | |

14[NASP]UH8027:T0359/652/0

**Key:**

PCAL = RCRA Proposed Corrective Action Level.
Dash (—) indicates compound not detected.

[a]RCRA PCAL for chromium is for hexavalent chromium (VI).
[b]Duplicate of sample P25S016A.
[c]Duplicate of sample P25S017A.

Qualifier:
(L) = Present below stated dotoction limit.

Source: Ecology and Environment, Inc., 1991.

Volatile organic compounds (VOCs), phenols, and pesticides were not detected in any of the soil samples.

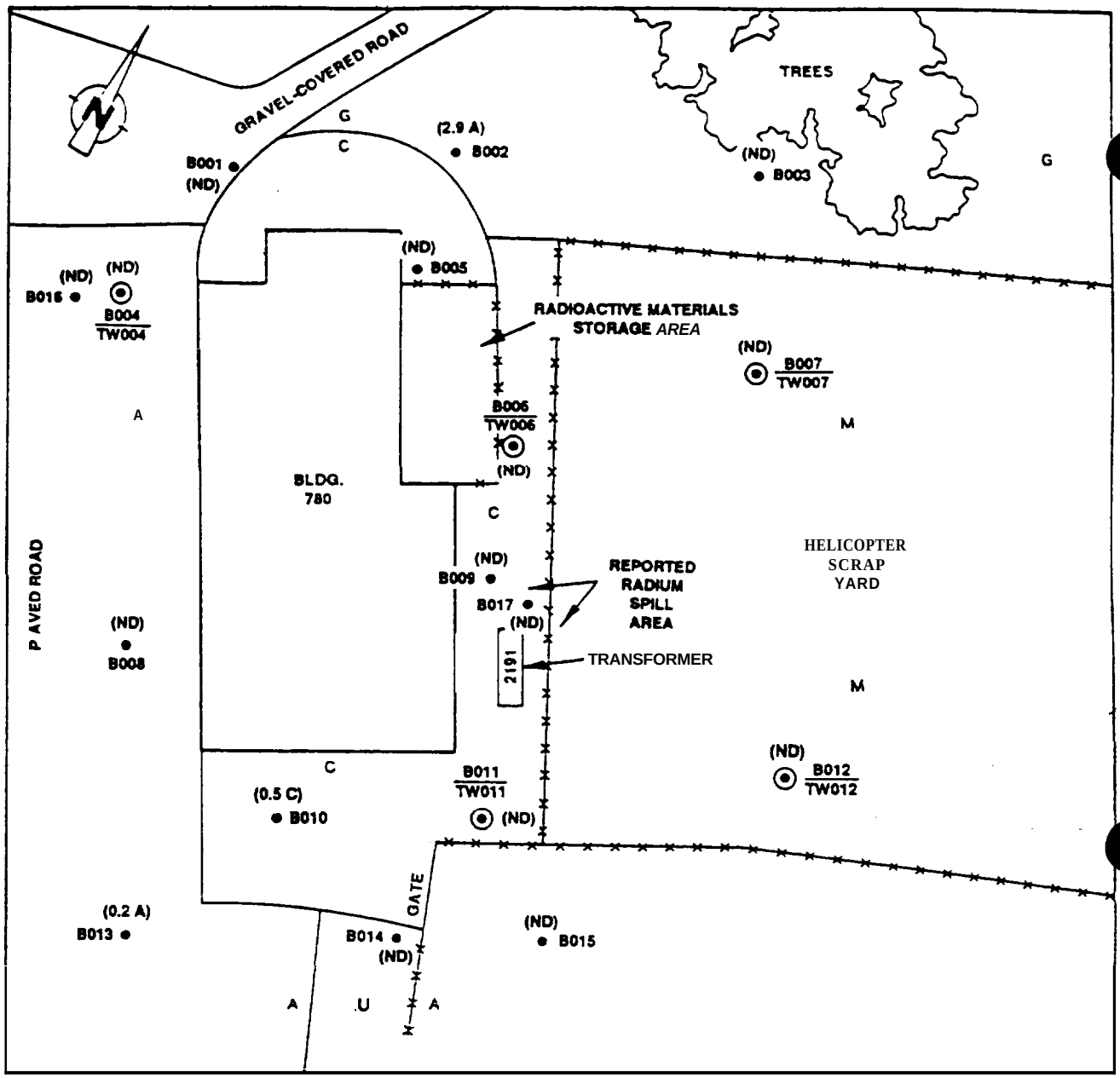
**Radiochemistry**

Figure 3-3 illustrates the distribution of radium-226 concentrations detected in the Site 25 soil samples. Radium-226 was not detected in the soil samples collected from borings B009 and B017, which are located near the former spill area east of Building 780. Low levels of radium-226 were detected in samples from only three soil borings at the site. Of these, soil samples S002A, S010C, and S013A exhibited the highest radium-226 concentrations at 2.9, 0.5, and 0.2 picocuries per gram (pCi/g), respectively. No samples exhibited radium-226 concentrations above the U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs) of 5 pCi/g in the upper 15 centimeters (cm; 0.5 foot) of soil and 15 pCi/g in soil deeper than 15 cm below the surface (EPA 1990). Given that the soil samples were collected as a composite of 5 feet of soil, the possibility exists that discrete soil intervals may contain radium-226 levels which exceed these EPA MCLs, especially in the 0- to 0.5-foot depth interval.

**Metals**

Figure 3-4 presents the distribution of the highest total metals concentrations from each soil boring across the site. In general, the highest metals concentrations were detected in the A-interval samples. The highest total metals concentration (346.62 milligrams per kilogram [mg/kg]) was detected in soil sample S017A, collected from boring B017 which is located immediately east of Building 780, approximately 10 feet north of the transformer. Sample S010A, collected from boring B010 which is located approximately 20 feet south of Building 780, exhibited the second highest total metals concentration (274 mg/kg). All other total metals concentrations in soil samples collected at Site 25 were below 30 mg/kg (see Table 3-2). No metals concentrations detected exceed the respective RCRA PCALs.

Zinc was detected in over half of the soil samples collected at the site, and chromium was detected in nearly half of the samples. Lead, cadmium, and copper were detected in only a few of the soil samples.




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

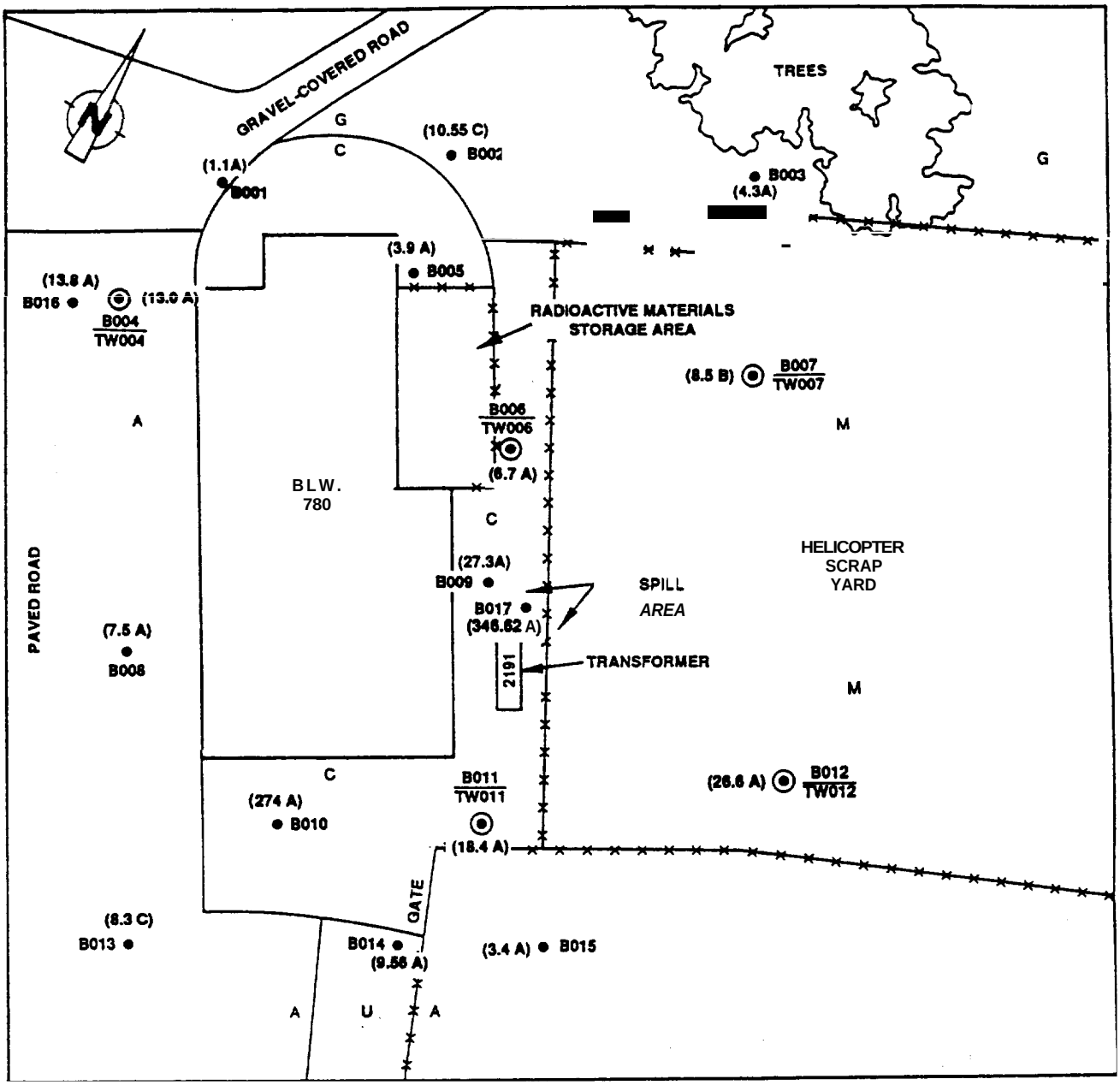
SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | U | Unpaved Area |
| | Trees | ● | Soil Boring |
| | Fence | ○ | Temporary Monitoring Well |
| A | Asphalt-Paved Area | B006 | Soil Boring Number |
| C | Concrete-Paved Area | TW006 | Temporary Monitoring Well Number |
| G | Grass-Covered Area | (2.9 A) | Highest Radium-226 Concentration (pCi/g) and Sample Interval |
| M | Metal-Covered/Unpaved Area | (ND) | Not Detected |

**Figure 3-3 RADIUM-226 CONCENTRATIONS DETECTED IN SOIL SAMPLES—NAS PENSACOLA SITE 25**




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

SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | U | Unpaved Area |
| | Trees | ● | Soil Boring |
| | Fence | ○ | Temporary Monitoring Well |
| A | Asphalt-Paved Area | B006 | Soil Boring Number |
| C | Concrete-Paved Area | TW006 | Temporary Monitoring Well Number |
| G | Grass-Covered Area | (7.5 A) | Highest Total Metals Concentration (mg/kg) and Sample Interval |
| M | Metal-Covered/Unpaved Area | | |

**Figure 3-4 TOTAL METALS SONCENTRATIONS DETECTED IN SOIL SAMPLES — I IAS PENSACOLA SITE 25**

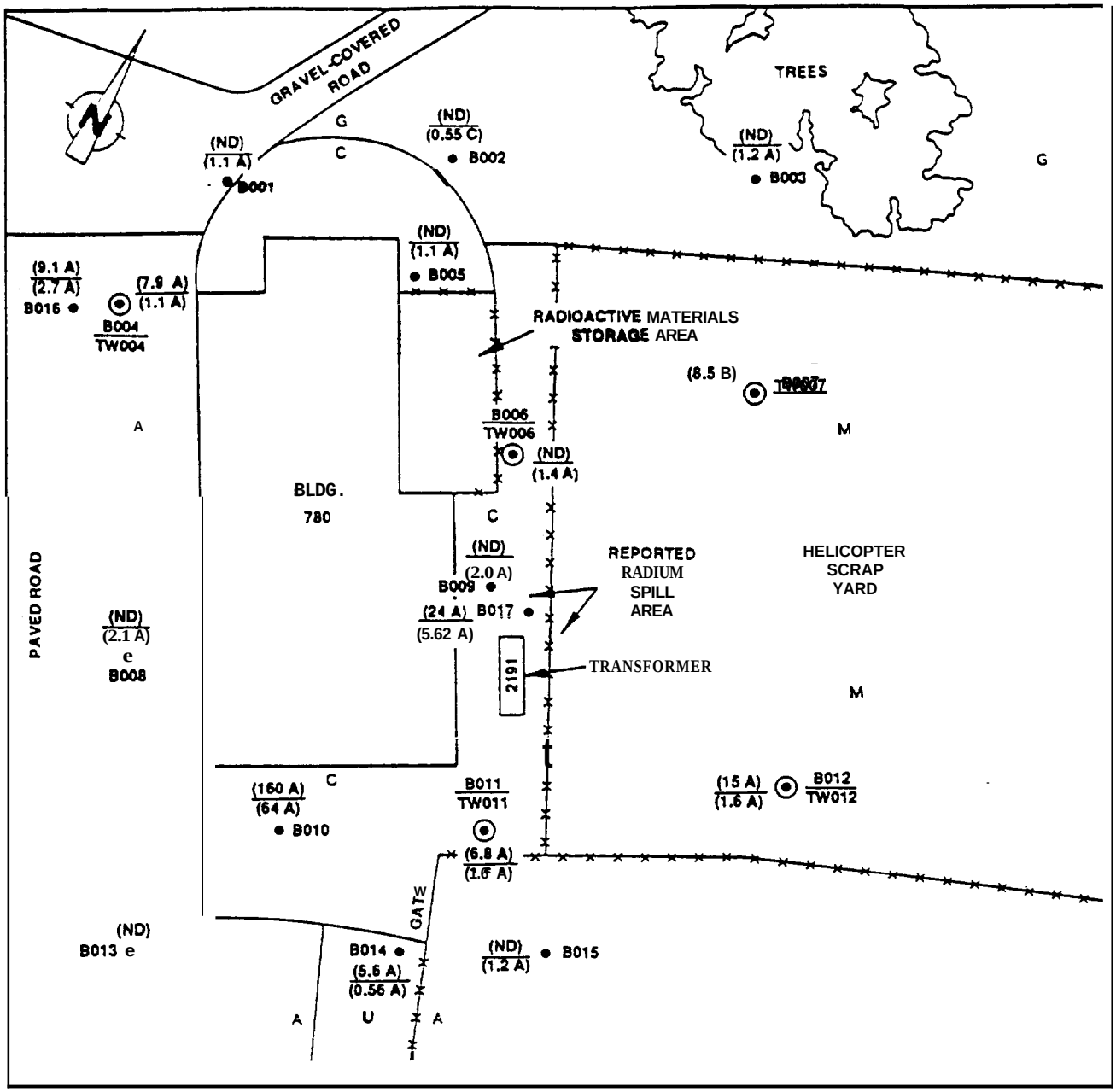
Figure 3-5 presents the distribution of the highest lead, chromium, and cadmium concentrations from each soil boring at the site. Lead concentrations were highest in samples S010A and S017A at 160 and 24 mg/kg, respectively, and the combined chromium and cadmium concentrations were highest in these same soil samples at 64 and 5.62 mg/kg, respectively (see Table 3-2). Overall, the highest metals concentrations detected in soil occurred primarily in samples collected from borings B010 and B017, which are located immediately south and east of Building 780, respectively, and are likely related to past and/or present activities in and around the building.

**TRPHs**

TRPHs were detected in soil samples from 12 of the 17 soil borings. Figure 3-6 presents the distribution of TRPH concentrations at the site. The highest concentration was detected in sample S016A (290 mg/kg), collected from boring B016 which is located in the roadway west of Building 780 (see Figure 3-6). This higher concentration may be attributed to the heavy automotive traffic on this road throughout the years. The second highest TRPH concentrations were detected in sample S006C (95 mg/kg), collected from boring B006 which is located east of the fenced storage area, and S005A (56 mg/kg), collected from boring B005 which is located immediately north of the fenced storage area (see Figure 3-6). Soil samples collected from five borings north and east of Building 780 (B001, B002, B007, B009, and B012) exhibited no detectable TRPH concentrations (see Figure 3-6). All of the remaining soil samples exhibited low to moderately elevated TRPB concentrations (below 50 mg/kg) that are sporadically distributed across the site. No clear vertical or horizontal trends occur among the TRPH concentrations in these samples, and no definite sources have been identified. Vehicular activities and parking may be at least partially responsible for the TRPH concentrations detected.

**PAHs**

PAHs were detected only in sample S017A and duplicate sample S017AD at trace levels below the detection limit of 1,000 micrograms per




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

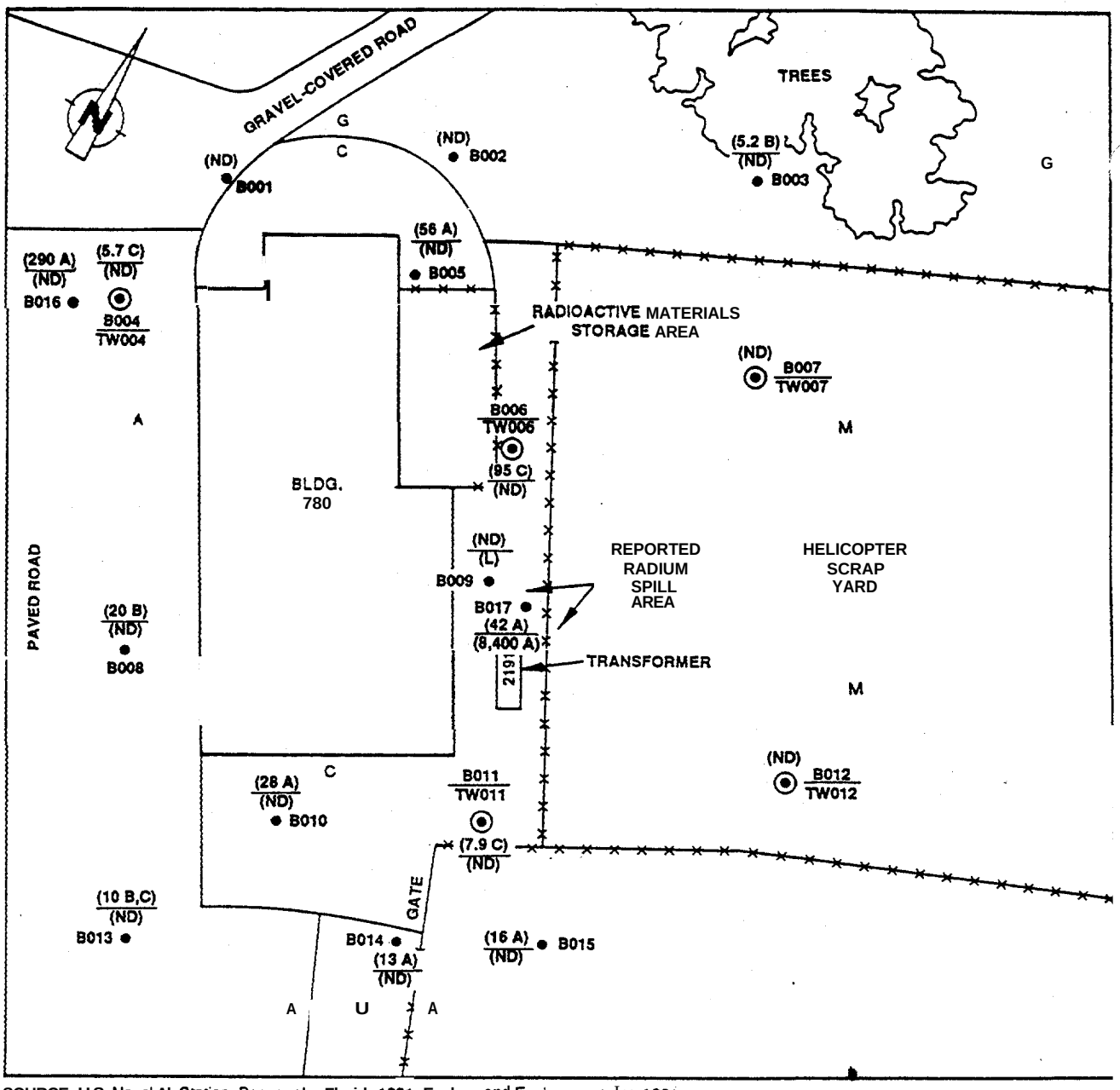
SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | U | Unpaved Area |
| | Trees | e | Soil Boring |
| | Fence | | Temporary Monitoring Well |
| A | Asphalt-Paved Area | B006 | Soil Boring Number |
| C | Concrete-Paved Area | TW006 | Temporary Monitoring Well Number |
| G | Grass-Covered Area | (9.1 A) / (2.7 A) | Highest Lead Concentration (mg/kg) and Sample Interval; Highest Cadmium and Chromium Concentrations Combined (mg/kg) and Sample Interval |
| M | Metal-Covered/Unpaved Area | (ND) | Not Detected |

**Figure 3-5 LEAD AND COMBINED CADMIUM AND CHROMIUM CONCENTRATIONS DETECTED IN SOIL SAMPLES — NAS PENSACOLA SITE 25**




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

SCALE

0 50 100 FEET

1

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | ● | Soil Boring |
| | Trees | ○ | Temporary Monitoring Well |
| | Fence | B006 | Soil Boring Number |
| A | Asphalt-Paved Area | TW006 | Temporary Monitoring Well Number |
| C | Concrete-Paved Area | (290 A) | Highest TRPH Concentration (mg/kg) and Sample Interval |
| G | Grass-Covered Area | (8,400 A) | Highest PCB Concentration (ug/kg) ana Sample Interval |
| M | Metal-Covered/Unpaved Area | (L) | Present Below Detection Limit |
| U | Unpaved Area | (ND) | Not Detected |

**Figure 3-6 TRPH AND PCB CONCENTRATIONS DETECTED IN SOIL SAMPLES NAS PENSACOLA SITE 25**

kilogram (µg/kg) for PAHs. Boring B017 is located between Building 780 and the helicopter scrap yard (see Figure 2-1).

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.

**PCBs**

PCBs were detected in soil samples from two borings at the site. Figure 3-6 presents the distribution of PCB concentrations detected in Site 25 soil samples. Samples S017A and its duplicate S017AD exhibited highly elevated levels of PCBs at 8,400 µg/kg and 14,000 µg/kg, respectively, which exceed the RCRA PCAL of 90 µg/kg (EPA 1990a). Soil samples collected from all sampling depth intervals at B009 exhibited concentrations of PCBs below the quantifiable detection limit of 5,000 µg/kg. These concentrations are expected to be greater than the PCAL for PCBs.

Both borings B009 and B017 are located immediately north and within 20 feet of the transformer (and former transformer) on the east side of Building 780 (see Figure 3-6). Boring B017 was drilled in an unpaved area where a utility pole is located. This area could serve as a conduit for a surface PCB spill to infiltrate into the underlying soil and groundwater. Although no reports of spills or leaks of dielectric fluids containing PCBs have been documented for this site, the PCB contamination in these soil samples is most likely related to the former transformer which was located in this area and which likely contained PCBs.

### 3.7.2 Groundvater

#### 3.7.2.1 Field Parameters

Table 3-3 lists the groundwater temperature, pH, and specific conductance values measured for the samples collected from the temporary monitoring wells. With the exception of a high temperature reading for sample GW006, all field parameters for the water samples fall within the reported range of values of ambient groundwater in Escambia County (Clemens *et al.* 1989). No floating or sinking immiscible hydrocarbons

Table 3-3

GROUNDWATER FIELD PARAMETERS
NAS PENSACOLA SITE 25

| Well Number | Temperature (°C) | pH (units) | Specific Conductance (μmhos/cm) | Date Measured |
|---|---|---|---|---|
| TW004 | 25 | 6.40 | 110 | 6/21/91 |
| Two06 | 35 | 6.45 | 110 | 6/21/91 |
| TWO07 | 25 | 6.50 | 130.5 | 6/21/91 |
| TW011 | 25 | 6.45 | 132 | 6/21/91 |
| Two12 | 25 | 6.45 | 150 | 6/21/91 |

14[NASP]UH8027:T0359/632/26

Source: Ecology and Environment, Inc., 1991.

were observed in any of the wells. The pH values measured in the temporary monitoring wells ranged from 6.4 to 6.5. Appendix D presents the temporary monitoring well information, including field parameter and groundwater elevation data.

**3.7.2.2** Analytical Screening Parameters

Table 3-4 summarizes the radiochemical and analytical screening results for the groundwater samples collected from the five temporary monitoring wells installed at Site 25. Figure 2-1 shows the temporary monitoring well locations at the site. The complete radiochemical analytical results for the groundwater samples are presented in Appendix F, and the complete analytical screening results for the groundwater samples are presented in Appendix H.

In general, only radionuclides and metals were detected at elevated levels in the groundwater samples collected at Site 25. Radium-226 and two metals, chromium and lead, were detected above the Florida Primary Drinking Water Standards (FPDWSs; Florida Department of Environmental Regulation [FDER] 1990). No TRPHs, VOCs, PAHs, phenols, pesticides, or PCBs were detected in any of the Site 25 groundwater samples.

Radiochemistry

Figure 3-7 presents the radium-226 and gross alpha concentrations detected in all five of the groundwater samples collected at Site 25. Generally, the highest radium-226 results corresponded with the highest gross alpha results. The EPA MCL and the FPDWS for radium-226 of 5 picocuries per liter (pCi/L) are apparently exceeded in groundwater samples collected at all five wells on the site, but none of the groundwater samples collected exhibited gross alpha contamination above the EPA HCL or the FPDWS of 15 pCi/L. Groundwater sample GW011, collected from temporary well TW011 which is located hydraulically downgradient from the reported spill area, exhibited the highest radium-226 and gross alpha concentrations of 16.1±3.9 and 11±5 pCi/L, respectively. Groundwater samples from TW007 and TW012 exhibited the second highest radium-226 and gross alpha results (see Table 3-4).

**Table 3-4**

**SUMMARY ANALYTICAL SCREENING RESULTS FOR GROUNDWATER SAMPLES (FROM TEMPORARY MONITORING WELLS) NAS PENSACOLA SITE 25 (All results in µg/L, unless noted)**

| Parameter | Dotoction Limit | Sample Number (Well Number) | | | | | | FPDWS/ PSDWS |
|---|---|---|---|---|---|---|---|---|
| | | P25GW004 (TW004) | P25GW004[a] (TW004) | P25GW006 (TW006) | P25GW007 (TW007) | P25GW011 (TW011) | P25GW012 (TW012) | |
| Radium-226 (pCi/L) | 0.6 | 4.5±2.6 | 6.4±3.0 | 7.5±3.0 | 10.8±3.4 | 16.1±3.9 | 15.5±4.5 | 5 |
| Gross alpha (pCi/L) | 2 | 6±5 | 6±5 | 4i3 | 9±6 | 11±5 | 7±5 | 15 |
| Chromium | 10 | 55 | 49 | 41 | 32 | 100 | 48 | 50 |
| Zinc | 20 | 53 | 51 | 33 | 50 | 170 | 170 | 5,000 |
| Load | 40 | -- | -- | -- | 110 | -- | 98 | 50 |
| Cadmium | 5.0 | -- | -- | -- | 10 | 8.8 | 6.0 | lo |
| Nickel | 40 | -- | -- | -- | -- | 99 | -- | |
| Copper | 25 | -- | -- | -- | -- | 41 | -- | 1,000 |

14[NASP]UH8027:T0359/623/2

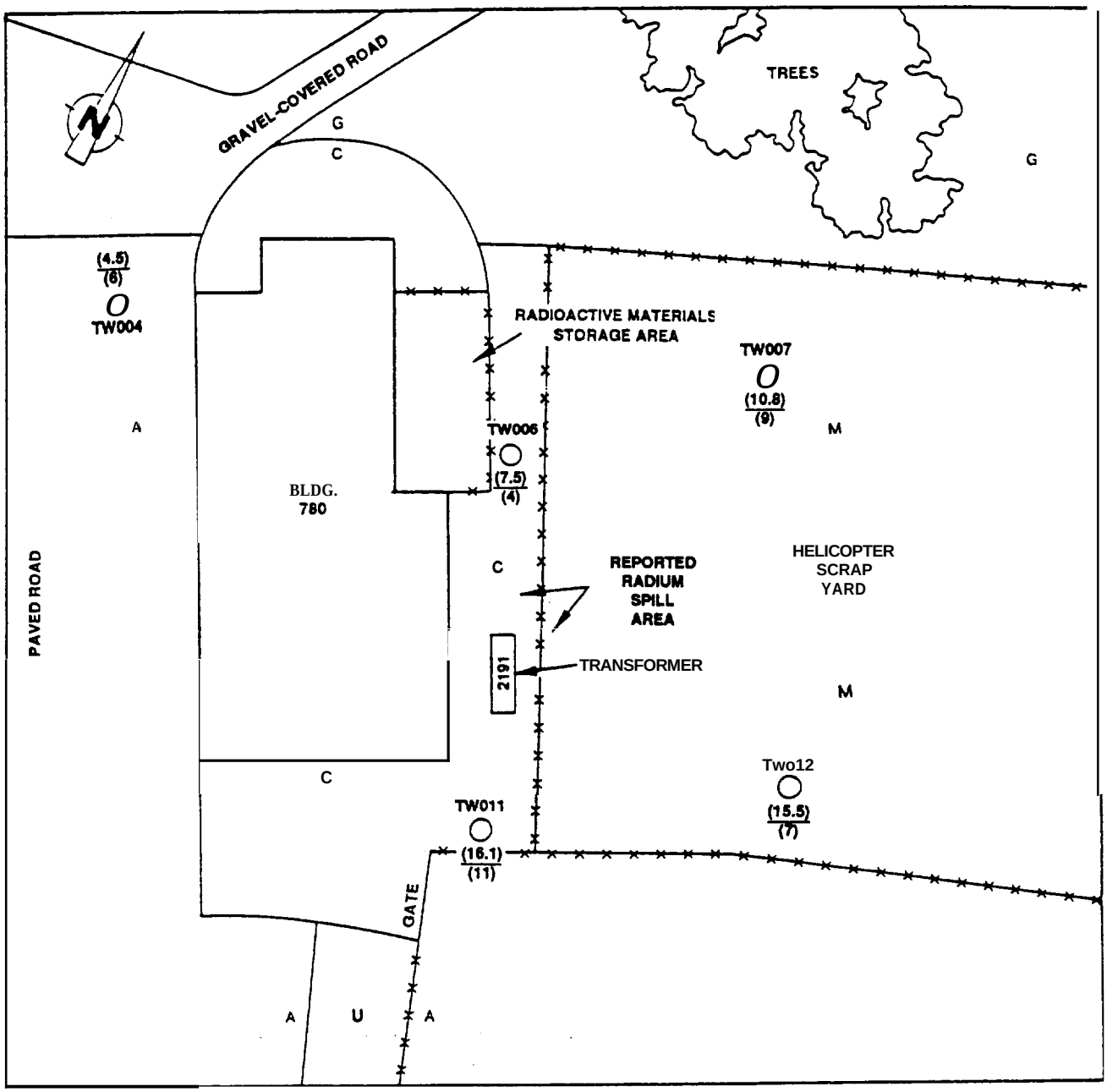
Key:

[a]Duplicate of sample P25GW004.

PPDWS = Florida Primary Drinking Water Standard.
PSDWS = Florida Secondary Drinking Water Standard.

Dash (--) indicates compound not detected.

Source: Ecology and Environment, Inc., 1991.




SOURCE: U.S. Naval Air Saoon. Pensacola, Florida 1991: Ecology and Environment. Inc. 1991

SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | M | Metal-Covered/Unpaved Area |
| | Trees | U | Unpaved Area |
| | Fence | | Temporary Monitoring Well |
| A | Asphalt-Paved Area | TW006 | Temporary Monitoring Well Number |
| C | Concrete-Paved Area | (4.5) / (6) | Radium-226 Concentration (pCi/L) / Gross Alpha Concentration (pCi/L) |
| G | Grass-Covered Area | | |

**Figure 3-7 RADIUM-226 AND GROSS ALPHA CONCENTRATIONS DETECTED IN SHALLOW GROUNDWATER SAMPLES — NAS PENSACOLA SITE 25**

**Metals**

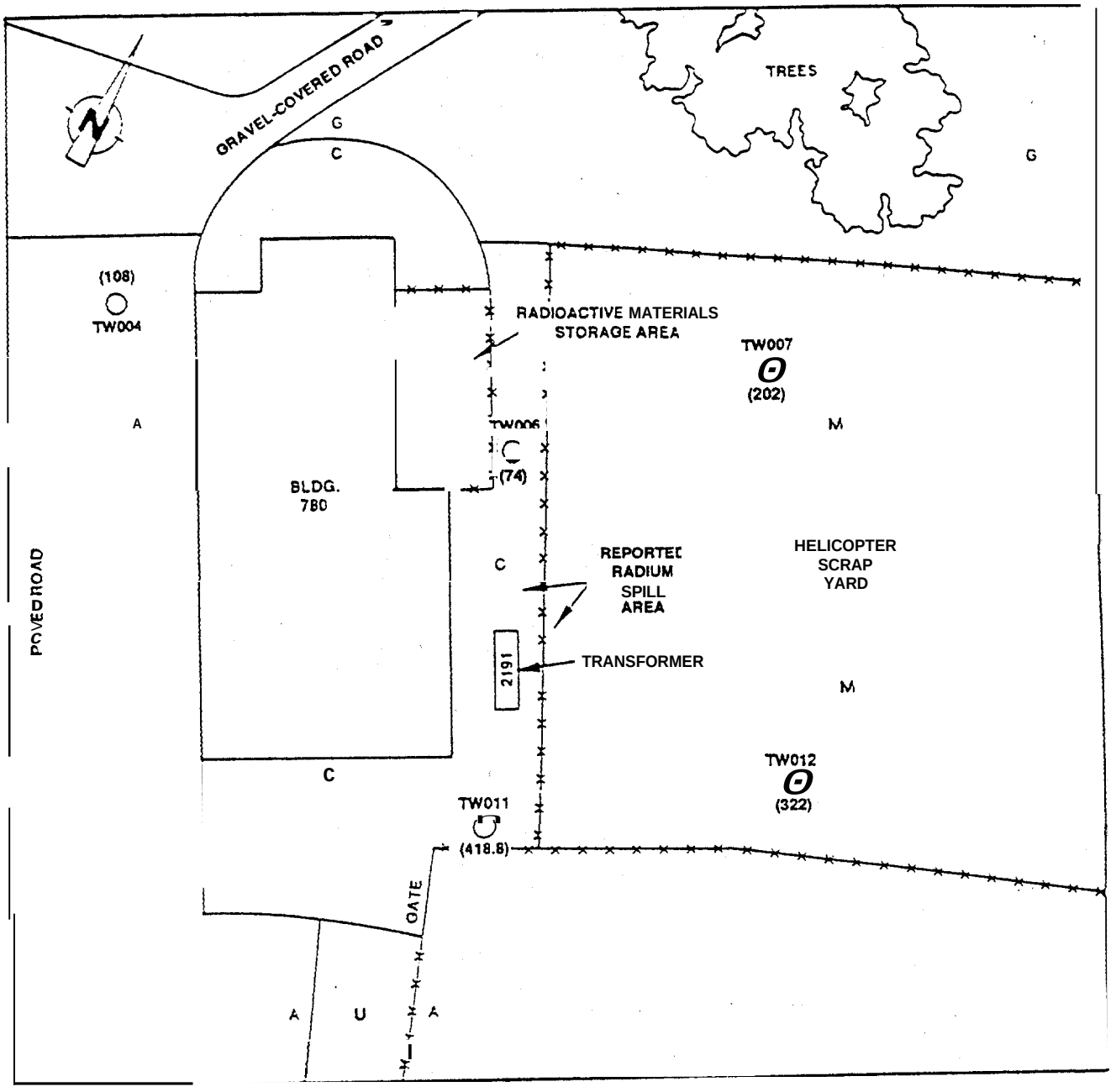
Chromium and zinc were detected in all five groundwater samples collected at Site 25. Cadmium was detected in three samples, and lead was detected in two. Copper and nickel were detected in only one sample (see Table 3-4). The FPDWS for chromium (50 [micrograms per liter [µg/L]) was exceeded in two samples (GW004 and GW011), and the FPDWS for lead (50 µg/L) was exceeded in two samples (GW007 and GW012). Cadmium was detected at the FPDWS of 10 µg/L in sample GW007. Zinc, copper, and nickel were all detected below the applicable FPDWS or Florida Secondary Drinking Water Standard (FSDWS; FDER 1990).

Figure 3-8 presents the distribution of total metals concentrations detected in the temporary well groundwater samples. Samples from temporary wells TW007, TW011, and TW012 exhibited the highest total metals concentrations. Wells TW007 and TW012 are located in the helicopter scrap yard, and well TW011 is hydraulically downgradient of the former spill area and the helicopter scrap yard. Figure 3-9 presents the total lead concentrations and the sum of the combined total cadmium and total chromium concentrations detected in each groundwater sample. Detectable total lead concentrations occurred only in the groundwater samples collected from wells TW007 and TW012, located in the helicopter scrap yard, and the sum of total chromium plus total cadmium concentrations was highest in well TW011.

Overall, the highest metals concentrations were detected in the groundwater samples collected from wells located in or downgradient of the helicopter scrap yard and may be related to the abundance of metal debris stored in this area, as well as the perforated metal, interlocking grid used as a ground cover.

## 3.8 CONTAMINATION DISTRIBUTION/SOURCE DISCUSSION

The two media, soil and groundwater, sampled on Site 25 exhibit at least trace levels of contamination by one or more of the contaminant groups radionuclides, metals, TRPHs, VOCs, PAHs, and PCBs. In some cases, the contamination appears to be related to the former radium spill and past and/or present radium stripping activities at Building 780. However, the results also indicate the presence of other potential




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

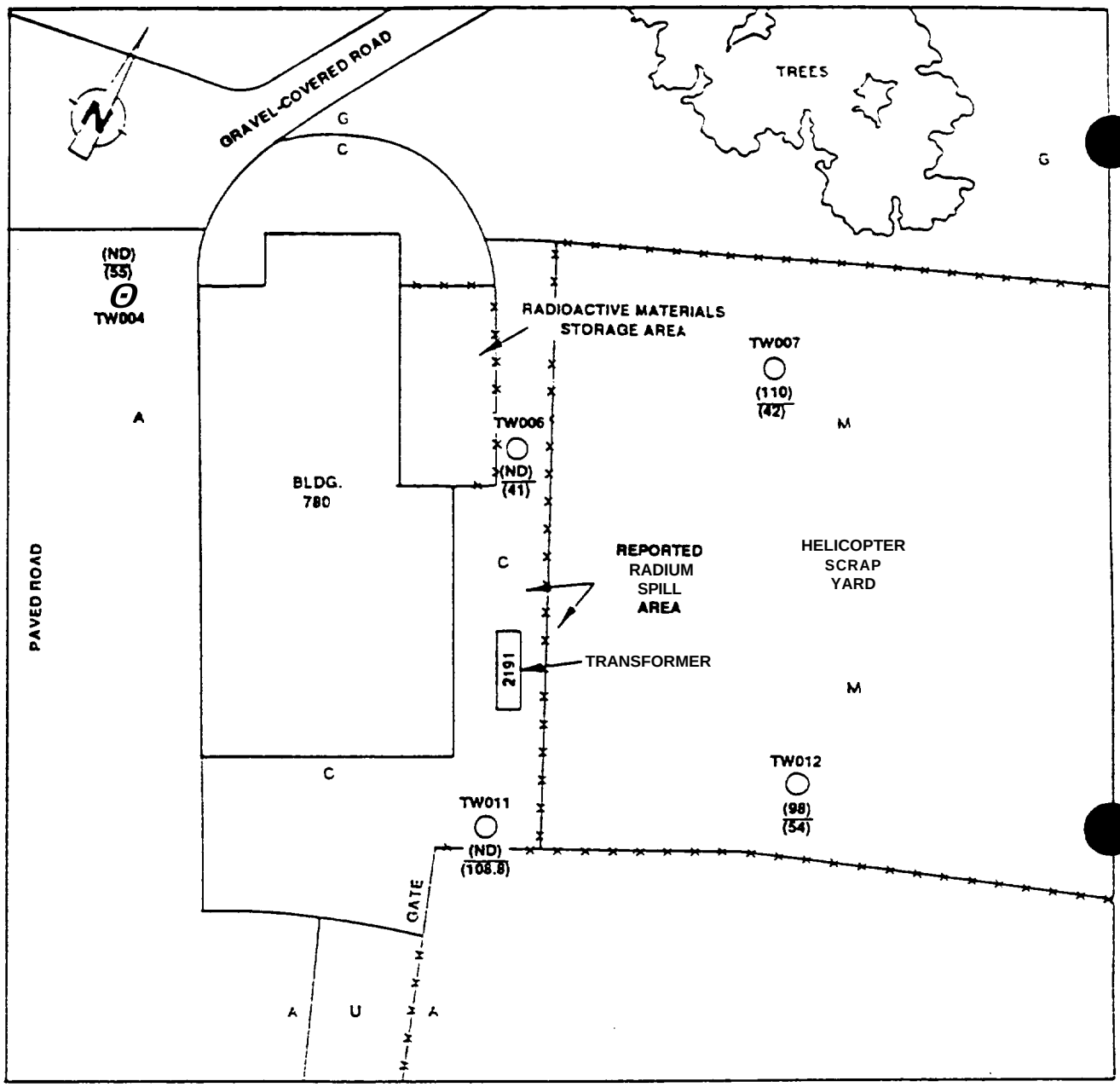
SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | M | Metal-Covered/Unpaved Area |
| | Trees | U | Unpaved Area |
| | Fence | | Temporary Monitoring Well |
| A | Asphalt-Paved Area | TW006 | Temporary Monitoring Well Number |
| C | Concrete-Paved Area | (108) | Total Metals Concentration (ug/L; excluding radium-226) |
| G | Grass-Covered Area | | |

**Figure 3-8 TOTAL METALS CONCENTRATIONS DETECTED IN SHALLOW GROUNDWATER SAMPLES — NAS PENSACOLA SITE 25**




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

SCALE

0 50 100 FEET

KEY:

| | | | |
|---|---|---|---|
| BLDG. 780 | Building | M | Metal-Covered/Unpaved Area |
| | Trees | U | Unpaved Area |
| | Fence | ○ | Temporary Monitoring Well |
| A | Asphalt-Paved Area | TW006 | Temporary Monitoring Well Number |
| C | Concrete-Paved Area | (110)/(42) | Lead Concentration (ug/L) / Cadmium and Chromium Concentrations Combined (ug/L) |
| G | Grass-Covered Area | (ND) | Not Detected |

**Figure 3-9 LEAD AND COMBINED CADMIUM AND CHROMIUM CONCENTRATIONS DETECTED IN SHALLOW GROUNDWATER SAMPLES — NAS PENSACOLA SITE 25**

sources of contamination impacting Site 25. In the following sections, each of the sampled media will be discussed separately regarding the nature, distribution, and sources of possible contamination.

### 3.8.1 Soil

Low levels of radium-226 and elevated concentrations of metals, TRPHs, PAHs, and PCBs were detected in soil samples collected at Site 25. Low levels of radium-226 were detected in only a few soil samples at the site, all of which were below the EPA MCL of 15 pCi/g for radium-226 in soil deeper than 15 cm. The occurrence of radium-226 in the soil samples is probably due to past and/or present activities in Building 780 or may be the result of natural rock materials present. Because no discrete surface soil samples (0 to 0.5 foot BLS) were collected, it is uncertain how extensive the surface radium-226 contamination is. The likelihood that surface soil samples collected at the site would contain radium-226 at levels which exceed the EPA MCLs is low, based on the results of the walkover radiation survey and the relatively low levels detected in the shallow sampling intervals; however, the possibility exists that the surface soil may potentially contain radium-226 levels exceeding the EPA MCL of 5 pCi/g. Samples collected in the area of the reported spill did not exhibit radium-226 concentrations.

Metals concentrations were highest in A-interval soil samples collected from the borings located south and east of the southeast corner of Building 780. Chromium and lead concentrations were highest in samples collected south of the building. These elevated concentrations may be due to past and/or present activities in the building or in the adjacent helicopter scrap yard; however, some of these elevated concentrations may also be attributable to the former radium paint/solution spill that reportedly occurred near the southeast corner of Building 780. Elevated metals concentrations in this area may be attributable to metals in this painting solution. The area of elevated lead and chromium contamination south of the building is probably not related to the former spill area and suggests an isolated area of contamination. No detected metals concentrations exceed the respective RCRA PCALs.

Elevated levels of TRPHs were distributed sporadically across the site (both horizontally and vertically), suggesting multiple and perhaps ambient sources. The highest TRPH concentration was detected in a sample collected from boring B016 which is located west of Building 780 in a very heavily used roadway (see Figure 3-6), suggesting that the elevated level of TRPHs in this area is most likely attributable to vehicle traffic and/or parking.

Soil samples collected from boring B017, located east of Building 780 just north of the transformer, exhibited trace levels of PAHs below the detection limit of 1,000 µg/kg. The PAHs present may be attributable to oils in the dielectric fluids used in the transformer at the site or from the quality assurance analyses of oil used in aviation activities at the base currently conducted in Building 750.

PCB contamination in samples collected from BOO9 and B017, located just north of the transformer east of the building, are clearly associated with the former transformer in this area. The existing transformer does not contain PCBs; however, the former transformer in this area most likely did contain PCBs in the dielectric fluid. The PCB concentrations detected in samples from boring B017 exceed the RCRA PCAL for PCBs in soil. Boring B017, closest to the transformer (and former transformer) and exhibiting the highest PCB concentrations, was drilled in an unpaved area. Host of the area near the transformer is paved with concrete, but an approximately 2-foot by 2-foot area where a utility pole is located is unpaved. This unpaved area could act as a conduit for surface spills to penetrate the underlying soils and potentially access groundwater. No spills of dielectric fluids containing PCBs have been reported.

### 3.8.2 Groundwater

Groundwater samples collected from the temporary monitoring wells at Site 25 exhibited elevated levels of radium-226, as well as elevated metals concentrations. Radium-226 contamination in groundwater is apparent in four out of five groundwater samples collected from the site. The highest levels of radium-226 were detected in two samples that were collected in wells located hydraulically downgradient of Building 780 and the reported spill area (TWO11 and TWO12). Monitoring

wells TW006 and TW007 located east of the building also exhibited radium-226 concentrations above the EPA MCLs. These concentrations are likely attributable to past and/or present activities in Building 780. The sample collected from the upgradient well, TW004, exhibited the lowest radium-226 concentration detected at the site. Gross alpha radioactivity levels were below the EPA MCL of 15 pCi/L in all groundwater samples collected.

Elevated metals concentrations were also detected in groundwater samples collected at the site. Metals concentrations were highest in the two wells located inside the helicopter scrap yard and the well located just south of the former radium spill area. Chromium exceeded the FPDWS in the well located hydraulically upgradient of Building 780 (TW004) and in the well south and downgradient of the former spill area (TW011). Lead exceeded the FPDWS in samples collected from the two wells located in the scrap yard (TW007 and TW012). Cadmium was detected in the northernmost well in the scrap yard (TW007) at the PPDWS of 10 µg/L. The elevated concentrations of metals in the groundwater samples collected from the two wells located within the helicopter scrap yard may be indicative of the weathering of metal debris stored in the scrap yard and/or the interlocking metal grid used as a ground cover in the scrap yard.

All of the groundwater samples for total (unfiltered) metals exhibited elevated Concentrations of several metals. It should be noted that, to some extent, the levels of total metals detected probably reflect the leaching of metals from aquifer matrix sediments entrained in the samples during acid preservation.

## 3.9 QA/QC

### 3.9.1 Field QA/QC

Two soil duplicates and one groundwater duplicate were collected for the Site 25 screening samples. The analytical results for the duplicate samples are presented in the summary tables for the respective media (see tables 3-2 and 3-4). The results of both the soil (S016AD and S017AD) and groundwater (GW004D) duplicate samples indicated that sample matrix materials were generally homogeneous. Some slight

differences occurred in soil analytical results for the screening parameters (e.g., PCBs); however, these differences are likely due to slight variations in matrix material.

### 3.9.2 Laboratory QA/QC

All laboratory method blanks for both soil and groundwater analyzed by E & E's ASC were found to be free of contaminants.

# 4. CONCLUSIONS

Soil and groundwater contamination are present at Site 25. The primary contaminants are radium-226, metals, TRPHs, and PCBs. Some of the detected contamination is clearly associated with the former radium spill east of Building 780; however, additional sources of contamination are apparently impacting Site 25.

Several areas of soil contamination are present. A limited area of metals contamination immediately east of Building 780 appears to be associated with the former spill (or with a transformer-related incident). Another limited area of metals contamination south of Building 780 suggests an isolated source in this area. None of the metals concentrations exceed the respective RCRA PCALs. In contrast, except for the area north of Building 780 and the helicopter scrap yard, low-level TRPH contamination is sporadically widespread and could reflect multiple sources. In particular, a very high level of TRPH contamination immediately west of the northern end of Building 780 suggests an isolated source in this area. A limited area of PCB contamination is present immediately east of Building 780 near the new transformer. The existing transformer does not contain PCBs, but the recently replaced transformer most likely did contain PCBs (Bell 1992). The PCB contamination in this area does exceed the RCRA PCAL for PCBs in soil. Although no evidence of spills or leaks of dielectric fluid were found, the PCB contamination is clearly associated with a transformer-related incident.

Several areas of groundwater contamination are also present. Radium-226 concentrations exceeding Florida and EPA standards were widespread. The highest concentrations were detected south of Building 780 and hydraulically downgradient of both the building and the former spill area, and the lowest concentration was detected upgradient of the

building, suggesting the radium-226 contamination is associated with the former spill or with past and/or present radium dial stripping activities at Building 780. Metals concentrations exceeding Florida standards were detected in the helicopter scrap yard and an area south of Building 780, hydraulically downgradient of the scrap yard and former spill area. The areas of metals contamination in the scrap yard are possibly attributable to the weathering of metallic debris stored in the scrap yard or the interlocking metal grid used as a ground cover in the scrap yard; the area south of Building 780 may be attributable to this same process or to the former spill.

Further assessment activities are required at Site 25.

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## 6. FLORIDA PROFESSIONAL GEOLOGIST SEAL

I hereby affix my seal to the Interim Data Report for Radium Spill Area (Site 25), 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: | John D. Barksdale |
| License Number: | P.G. No. 1150 |
| State: | Florida |
| Expiration Date: | July 31, 1994 |

John D. Barksdale

John D. Barksdale

11/19/92

Date

# APPENDIX A

# SURFACE MISSIONS DATA

# SITE 25 SURFACE EMISSIONS SURVEY

| COORDINATE LOCATION | OVA BACKGROUND (ppm) | OVA ABOVE BACKGROUND (ppm) |
|---|---|---|
| N0+00E0+00 | 5.2 | 0 |
| N0+00E0+25 | 5.2 | 0 |
| N0+00E0+50 | 5.2 | 0 |
| N0+00E0+75 | 5.2 | 0 |
| N0+00E1+00 | 5.2 | 0 |
| N0+00E1+25 | 5.2 | 0 |
| N0+00E1+50 | 5.2 | 0 |
| N0+00E1+75 | 5.2 | 0 |
| N0+00E2+00 | 5.2 | 0 |
| N0+00E2+25 | 5.2 | 0 |
| N0+00E2+50 | 5.2 | 0 |
| N0+25E0+00 | 5.2 | 0 |
| N0+25E0+25 | 5.2 | 0 |
| N0+25E0+50 | 5.2 | 0 |
| N0+25E0+75 | 5.2 | 0 |
| N0+25E1+25 | 5.2 | 0 |
| N0+25E1+50 | 5.2 | 0 |
| N0+25E1+75 | 5.2 | 0 |
| N0+25E2+00 | 5.2 | 0 |
| N0+25E2+25 | 5.2 | 0 |
| N0+25E2+50 | 5.2 | 0 |
| N0+50E0+00 | 5.2 | 0 |
| N0+50E0+25 | 5.2 | 0 |
| N0+50E0+50 | 5.2 | 0 |
| N0+50E0+75 | 5.2 | 0 |
| N0+50E1+00 | 5.2 | 0 |
| N0+50E1+25 | 5.2 | 0 |
| N0+50E1+75 | 5.2 | 0 |
| N0+50E2+00 | 5.2 | 0 |
| N0+50E2+25 | 5.2 | 0 |
| N0+50E2+50 | 5.2 | 0 |
| N0+75E0+00 | 5.2 | 0 |
| N0+75E0+25 | 5.2 | 0 |
| N0+75E0+50 | 5.2 | 0 |
| N0+75E0+75 | 5.2 | 0 |
| N0+75E1+00 | 5.2 | 0 |
| N0+75E1+00 | 5.2 | 0 |
| N0+75E1+25 | 5.2 | 0 |
| N0+75E1+75 | 5.2 | 0 |
| N0+75E2+00 | 5.2 | 0 |
| N0+75E2+25 | 5.2 | 0 |
| N0+75E2+50 | 5.2 | 0 |
| N1+00E0+00 | 5.2 | 0 |
| N1+00E0+25 | 5.2 | 0 |
| N1+00E1+00 | 5.2 | 0 |

SITE 25 SURFACE EMISSIONS SURVEY

| COORDINATE LOCATION | OVA BACKGROUND (ppm) | OVA ABOVE BACKGROUND (ppm) |
|---|---|---|
| N1+00E1+25 | 5.2 | 0 |
| N1+00E1+50 | 5.2 | 0 |
| N1+00E1+75 | 5.2 | 0 |
| N1+00E2+00 | 5.2 | 0 |
| N1+00E2+50 | 5.2 | 0 |
| N1+25E0+00 | 5.2 | 0 |
| N1+25E0+25 | 5.2 | 0 |
| N1+25E1+00 | 5.2 | 0 |
| N1+25E1+25 | 5.2 | 0 |
| N1+25E1+50 | 5.2 | 0 |
| N1+25E1+75 | 5.2 | 0 |
| N1+25E2+00 | 5.2 | 0 |
| N1+25E2+25 | 5.2 | 0 |
| N1+25E2+50 | 5.2 | 0 |
| N1+50E0+00 | 5.2 | 0 |
| N1+50E0+25 | 5.2 | 0 |
| N1+50E1+25 | 5.2 | 0 |
| N1+50E1+50 | 5.2 | 0 |
| N1+50E1+75 | 5.2 | 0 |
| N1+50E2+25 | 5.2 | 0 |
| N1+50E2+50 | 5.2 | 0 |
| N1+75E0+00 | 5.2 | 0 |
| N1+75E0+25 | 5.2 | 0 |
| N1+75E1+25 | 5.2 | 0 |
| N1+75E1+50 | 5.2 | 0 |
| N1+75E1+75 | 5.2 | 0 |
| N1+75E2+00 | 5.2 | 0 |
| N1+75E2+25 | 5.2 | 0 |
| N1+75E2+50 | 5.2 | 0 |
| N2+00E0+00 | 5.2 | 0 |
| N2+00E0+25 | 5.2 | 0 |
| N2+00E0+50 | 5.2 | 0 |
| N2+00E1+00 | 5.2 | 0 |
| N2+00E1+25 | 5.2 | 0 |
| N2+00E1+50 | 5.2 | 0 |
| N2+00E1+75 | 5.2 | 0 |
| N2+00E2+00 | 5.2 | 0 |
| N2+00E2+50 | 5.2 | 0 |
| N2+25E0+00 | 5.2 | 0 |
| N2+25E0+25 | 5.2 | 0 |
| N2+25E0+50 | 5.2 | 0 |
| N2+25E0+75 | 5.2 | 0 |
| N2+25E1+00 | 5.2 | 0 |
| N2+25E1+25 | 5.2 | 0 |
| N2+25E1+25 | 5.2 | 0 |

SITE 25 SURFACE EMISSIONS SURVEY

| COORDINATE LOCATION | OVA BACKGROUND (ppm) | OVA ABOVE BACKGROUND (ppm) |
|---|---|---|
| N2+25E1+50 | 5.2 | 0 |
| N2+25E1+75 | 5.2 | 0 |
| N2+25E2+00 | 5.2 | 0 |

# APPBNDIX B

## PARTICULATE AIR SCREENING DATA

## SITE 25

## PARTICULATE AIR SCREENING DATA

Date: June 5, 1991
Wind Direction: Southeast
Wind Velocity: 3 to 5 miles per hour

Upwind Location: Southeast corner of site
Measurement Duration: 5 minutes
Time Weighted Average Particulate Concentration: 0.05 $mg/m^3$

Downwind Location: Northwest corner of site
Measurement Duration: 5 minutes
Time Weighted Average Particulate Concentration: 0.08 $mg/m^3$

Upwind/Downwind Difference: 0.03 $mg/m^3$

# APPENDIX C

## RADIATION DATA

09/26/91

# SITE 25 RADIATION SURVEY DATA

| COORDINATE LOCATION | ESP-2 1 METER GROSS CPM | ESP-2 1 METER GROSS DPM | ESP-2 SURFACE GROSS CPM | ESP-2 SURFACE GROSS DPM | MICROANALYST 1 METER (uR/h) |
|---|---|---|---|---|---|
| BACKGROUND | 3500 | 23333 | 4000 | 26667 | 1.0 |
| N0+00E0+00 | 7700 | 51333 | 7700 | 51333 | 2.5 |
| N0+00E0+25 | 6800 | 45333 | 8000 | 53333 | 0.9 |
| N0+00E0+50 | 3500 | 23333 | 3200 | 21333 | 0.7 |
| N0+00E0+75 | 2500 | 16667 | 2400 | 16000 | 0.5 |
| N0+00E1+00 | 2500 | 16667 | 2200 | 14667 | 0.5 |
| N0+00E1+25 | 4600 | 30667 | 5600 | 37333 | 0.8 |
| N0+00E1+50 | 5200 | 34667 | 5800 | 38667 | 0.8 |
| N0+00E1+75 | 4900 | 32667 | 5500 | 36667 | 1.0 |
| N0+00E2+00 | 4900 | 32667 | 5000 | 33333 | 1.0 |
| N0+00E2+25 | 4000 | 26667 | 5200 | 34667 | 1.0 |
| N0+00E2+50 | 4800 | 32000 | 5200 | 34667 | 0.8 |
| N0+25E0+00 | 5900 | 39333 | 6000 | 40000 | 1.3 |
| N0+25E0+25 | 5750 | 38333 | 6400 | 42667 | 1.0 |
| N0+25E0+50 | 4000 | 26667 | 4600 | 30667 | 0.8 |
| N0+25E0+75 | 2050 | 33667 | 2000 | 13333 | 0.3 |
| N0+25E1+25 | 5400 | 36000 | 5600 | 37333 | 0.8 |
| N0+25E1+50 | 5000 | 33333 | 5200 | 34667 | 0.9 |
| N0+25E1+75 | 5100 | 34000 | 5700 | 38000 | 1.0 |
| N0+25E2+00 | 4500 | 30000 | 3300 | 22000 | 0.7 |
| N0+25E2+25 | 4100 | 27333 | 4300 | 28667 | 1.0 |
| N0+25E2+50 | 3200 | 21333 | 5000 | 33333 | 0.8 |
| N0+50E0+00 | 4200 | 28000 | 3700 | 24667 | 1.3 |
| N0+50E0+25 | 4600 | 30667 | 4600 | 30667 | 0.8 |
| N0+50E0+50 | 4200 | 28000 | 4300 | 28667 | 0.9 |
| N0+50E0+75 | 4200 | 28000 | 4600 | 30667 | 1.0 |
| N0+50E1+00 | 5200 | 34667 | 5600 | 37333 | 0.9 |
| N0+50E1+25 | 4000 | 26667 | 4000 | 26667 | 1.0 |
| N0+50E1+75 | 2400 | 16000 | 2300 | 15333 | 0.6 |
| N0+50E2+00 | 2350 | 15667 | 2250 | 15000 | 0.5 |
| N0+50E2+25 | 2600 | 17336 | 2400 | 16000 | 0.5 |
| NO+50E2+50 | 2500 | 16667 | 2500 | 16667 | 0.7 |
| N0+75E0+00 | 4900 | 32667 | 5400 | 36000 | 0.7 |
| N0+75E0+25 | 5000 | 33333 | 5500 | 36667 | 1.0 |
| N0+75E0+50 | 8000 | 53333 | 7300 | 48667 | 1.6 |
| N0+75E0+75 | 8100 | 54000 | 7000 | 46667 | 1.5 |
| N0+75E1+00 | 5200 | 34667 | 6500 | 43333 | 0.9 |
| N0+75E1+00 | 5500 | 36667 | 4900 | 32667 | 1.0 |
| N0+75E1+25 | 3400 | 22667 | 3800 | 25333 | 0.5 |
| N0+75E1+75 | 2400 | 16000 | 2100 | 14000 | 0.5 |
| N0+75E2+00 | 2400 | 16000 | 2500 | 16667 | 0.5 |
| N0+75E2+25 | 2400 | 16000 | 2500 | 16667 | 0.4 |
| N0+75E2+50 | 2500 | 16667 | 2300 | 15333 | 0.5 |
| N1+00E0+00 | 5700 | 38000 | 5600 | 37000 | 0.9 |
| N1+00E0+25 | 5800 | 38667 | 6100 | 40667 | 1.0 |

# SITE 25 RADIATION SURVEY DATA

| COORDINATE LOCATION | ESP-2 1 METER GROSS CPM | ESP-2 1 METER GROSS DPM | ESP-2 SURFACE GROSS CPM | ESP-2 SURFACE GROSS DPM | MICROANALYST 1 METER (uR/h) |
|---|---|---|---|---|---|
| N1+00E1+00 | 6900 | 46000 | 6900 | 46000 | 1.1 |
| N1+00E1+25 | 3100 | 20667 | 2800 | 18667 | 0.5 |
| N1+00E1+50 | 2400 | 16000 | 2350 | 15667 | 0.5 |
| N1+00E1+75 | 2350 | 15667 | 2350 | 15667 | 0.5 |
| N1+00E2+00 | 2450 | 16333 | 2400 | 16000 | 0.3 |
| N1+00E2+50 | 2400 | 16000 | 2400 | 16000 | 0.3 |
| N1+25E0+00 | 5600 | 37333 | 5500 | 36667 | 0.8 |
| N1+25E0+25 | 5500 | 36667 | 6400 | 42667 | 0.8 |
| N1+25E1+00 | 2800 | 18667 | 3100 | 20667 | 0.7 |
| N1+25E1+25 | 3000 | 20000 | 3100 | 20667 | 0.5 |
| N1+25E1+50 | 2700 | 18000 | 2750 | 18333 | 0.6 |
| N1+25E1+75 | 2250 | 15000 | 2250 | 15000 | 0.4 |
| N1+25E2+00 | 2200 | 14667 | 2400 | 16000 | 0.5 |
| N1+25E2+25 | 2200 | 14667 | 2400 | 16000 | 0.6 |
| N1+25E2+50 | 2800 | 18667 | 2700 | 18000 | 0.7 |
| N1+50E0+00 | 5700 | 38000 | 5700 | 38000 | 1.0 |
| N1+50E0+25 | 5800 | 38667 | 6700 | 44667 | 1.0 |
| N1+50E1+25 | 2600 | 17333 | 2800 | 18667 | 0.3 |
| N1+50E1+50 | 2700 | 18000 | 2800 | 18667 | 0.4 |
| N1+50E1+75 | 2500 | 16667 | 2500 | 16667 | 0.6 |
| N1+50E2+25 | 2300 | 15333 | 2200 | 14667 | 0.5 |
| N1+50E2+50 | 2300 | 15333 | 2350 | 15667 | 0.5 |
| N1+56E0+42 | 11500 | 76667 | 10000 | 66667 | 1.8 |
| N1+68E0+26 | 7700 | 51333 | 11000 | 73333 | 1.6 |
| N1+69E0+03 | 7900 | 52667 | 9500 | 63333 | 1.3 |
| N1+75E0+00 | 6000 | 40000 | 5800 | 38667 | 1.3 |
| N1+75E0+25 | 7200 | 48000 | 7700 | 51333 | 1.5 |
| N1+75E1+25 | 3600 | 24000 | 3200 | 21333 | 0.5 |
| N1+75E1+50 | 2700 | 18000 | 2700 | 18000 | 0.5 |
| N1+75E1+75 | 2500 | 16667 | 2400 | 16000 | 0.5 |
| N1+75E2+00 | 2300 | 15333 | 2500 | 16667 | 0.5 |
| N1+75E2+25 | 2200 | 14667 | 2300 | 15333 | 0.4 |
| N1+75E2+50 | 2100 | 14000 | 2100 | 14000 | 0.4 |
| N1+85E0+48 | 11000 | 73333 | 11000 | 73333 | 2.2 |
| N1+88E0+10 | 8900 | 59333 | 12000 | 80000 | 1.7 |
| N1+88E0+28 | 8900 | 59333 | 12000 | 80000 | 2.0 |
| N2+00E0+00 | 6500 | 43333 | 7000 | 46667 | 1.3 |
| N2+00E0+25 | 9500 | 63333 | 11000 | 73333 | 1.5 |
| N2+00E0+50 | 5500 | 36667 | 5100 | 34000 | 1.0 |
| N2+00E1+00 | 4100 | 27333 | 4100 | 27333 | 1.0 |
| N2+00E1+25 | 3300 | 22000 | 3200 | 21333 | 0.5 |
| N2+00E1+50 | 3600 | 24000 | 3600 | 24000 | 0.6 |
| N2+00E1+75 | 3900 | 26000 | 3700 | 24667 | 0.6 |
| N2+00E2+00 | 3000 | 20000 | 3200 | 21333 | 0.4 |
| N2+00E2+50 | 2600 | 17333 | 2900 | 19333 | 0.5 |

# SITE 25 RADIATION SURVEY DATA

| COORDINATE LOCATION | ESP-2 1 METER GROSS CPM | ESP-2 1 METER GROSS DPM | ESP-2 SURFACE GROSS CPM | ESP-2 SURFACE GROSS DPM | MICROANALYST 1 METER (uR/h) |
|---|---|---|---|---|---|
| N2+01E0+75 | 9200 | 61333 | 7300 | 48667 | 1.2 |
| N2+02E0+30 | 9300 | 62000 | 10000 | 66667 | 2.0 |
| N2+25E0+00 | 4300 | 28667 | 4400 | 29333 | 0.8 |
| N2+25E0+25 | 5400 | 36000 | 5300 | 35333 | 0.9 |
| N2+25E0+50 | 3700 | 24667 | 3900 | 26000 | 0.7 |
| N2+25E0+75 | 3700 | 24667 | 3500 | 23333 | 0.6 |
| N2+25E1+00 | 3550 | 23667 | 3550 | 23667 | 0.7 |
| N2+25E1+25 | 3500 | 23333 | 3400 | 22667 | 0.5 |
| N2+25E1+25 | 2900 | 18000 | 2700 | 18000 | 0.6 |
| N2+25E1+50 | 2700 | 18000 | 2700 | 18000 | 0.5 |
| N2+25E1+75 | 2700 | 18000 | 2700 | 18000 | 0.5 |
| N2+25E2+00 | 3200 | 21333 | 3100 | 20667 | 0.5 |

APPENDIX D

# TEMPORARY MONITORING WELL, SOIL BORING, AND LITHOLOGIC INFORMATION

## SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 25
2) Boring no./Well no.: P25B017
3) Drilling firm: Griner Drilling Service
4) Drilling method: HA
5) Date drilled/installed: 06/25/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 5
8) Depth to water in borehole (BLS): NA
9) Highest open-borehole OVA/HNu reading (ppm): 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:

## BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.3 | Dark brown organic-rich sand and gravel. |
| 0.3- 1.0 | Hedium grey sand, medium grained with gravel. |
| 1.0- 5.0 | Medium tan sand, medium to coarse grained. |

Notes: All depths, lengths, heights, and elevations ar measured in feet. All boreholes are 4 inches in diameter. All welf 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.: 25
2) Boring no./Well no.: P25B011/P25TW011
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/18/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 18.5
8) Depth to water in borehole (BLS): 14
9) Highest open-borehole OVA/HNu reading (ppm): 0
10) Depth of well (BLS): 18.21
11) Length of well screen: 5
12) Length of casing (BLS): 13.21
13) Approx. height of casing above land surface: 1.84
14) Depth to water in well (BTOC): 16.36
15) Elevation of TOC: 22.81
16) Water level elevation: 6.45
17) Date groundwater sampled: 06/21/91
18) pH (units): 6.45
19) Temperature (degrees C): 25
20) Specific conductance (umhos/cm): 132
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

---

## BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 1.0 | Reddish-brown silty, sandy, clayey fill. |
| 1.0- 5.0 | Light brown sand, fine to medium grained. |
| 5.0- 10.0 | Light brown to tan sand, fine to medium grained. |
| 10.0- 15.0 | Cream sand, medium to coarse grained. Wet at 14 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.: 25
2) Boring no./Well no.: P25B012/P25TW012
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/20/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 19
8) Depth to water in borehole (BLS): 14.5
9) Highest open-borehole OVA/HNu reading (ppm): 0.2
10) Depth of well (BLS): 18.29
11) Length of well screen: 5
12) Length of casing (BLS): 13.29
13) Approx. height of casing above land surface: 1.71
14) Depth to water in well (BTOC): 15.91
15) Elevation of TOC: 22.91
16) Water level elevation: 7.03
17) Date groundwater sampled: 06/21/91
18) pH (units): 6.45
19) Temperature (degrees C): 25
20) Specific conductance (umhos/cm): 150
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

---

### BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.2 | Dark brown sand, medium grained. |
| 0.2- 5.0 | Light tan to brown sand, medium to coarse grained. |
| 5.0- 8.0 | Light tan sand, medium to coarse grained. |
| 8.0- 20.0 | Pale cream sand, medium to coarse grained. Wet at 14.5 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.: 25
2) Boring no./Well no.: P25B015
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/19/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 14.5
9) Highest open-borehole OVA/HNu reading (ppm): 0.4
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- 0.4 | Asphalt. |
| 0.4- 0.6 | Red, sandy, silty, clayey fill. |
| 0.6- 5.0 | Medium tan to brown sand, fine to medium grained. |
| 5.0- 10.0 | Light tan sand, medium grained. |
| 10.0- 15.0 | Pale tan to cream sand, medium to coarse grained. Wet at 14.5 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 INFORMTION

1) Site no.: 25
2) Boring no./Well no.: P25B016
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/25/91
6) Geologist: DAN POSS
7) Depth of boring (BLS): 5
8) Depth to water in borehole (BLS): NA
9) Highest open-borehole OVA/HNu reading (ppm): 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 vater 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- 0.7 | Asphalt. |
| 0.7- 1.0 | Red, sandy, clayey fill. |
| 1.0- 5.0 | Medium tan to brown sand, medium to coarse grained. |

---

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.: 25
2) Boring no./Well no.: P25B013
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/18/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 13.75
9) Highest open-borehole OVA/HNu reading (ppm): 1.2
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 | Asphalt. |
| 0.2- 0.4 | Dark reddish-brown, sandy, silty, clayey fill. |
| 0.4- 4.5 | Light brownish-tan sand, fine to medium grained. |
| 4.5- 10.0 | Light tan sand, fine to medium grained. |
| 10.0- 15.0 | Light cream sand, medium to coarse grained. Wet at 13.75 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 au er
NR = No Readfng

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

## SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 25
2) Boring no./Well no.: P25B014
3) Drilling firm: Griner Drilling Sevice
4) Drilling method: SSA
5) Date drilled/installed: 06/18/91
6) Geologist: DAN POSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 15
9) Highest open-borehole OVA/HNu reading (ppm): 1.0
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 groundvater 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 | Medium grey-tan, shelly, sandy fill. |
| 0.25- 5.0 | Light tan to brown sand, fine to medium grained, color lightens in lower 6 inches. |
| 5.0- 10.0 | Light tan to cream sand, fine to medium grained. |
| 10.0- 15.0 | Cream sand, medium to coarse grained. Vet at 15 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.: 25
2) Boring no./Well no.: P25B009
3) Drilling firm: Griner Drilling Service
4) Drilling method: HA
5) Date drilled/installed: 06/20/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 16
8) Depth to water in borehole (BLS): 16
9) Highest open-borehole OVA/HNu reading (ppm): 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:

## BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.3 | Concrete. |
| 0.3- 0.7 | Dark brown to black, clayey sand and gravel. |
| 0.7- 5.0 | Medium tan sand, medium grained. |
| 5.0- 10.0 | Hedium tan to pale tan sand, fine to medium grained. |
| 10.0- 16.0 | Pale tan sand, medium to coarse grained. Wet at 16 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 INFORHATION

1) Site no.: 25
2) Boring no./Well no.: P25B010
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/19/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 14.2
9) Highest open-borehole OVA/HNu reading (ppm): 6.0
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) Vater 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: Backf lled with cuttings.
22) Comments:

## BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.25 | Concrete. |
| 0.25- 5.0 | Medium brown to tan sand, medium grained. |
| 5.0- 10.0 | Light brown to tan sand, medium to coarse grained, becoming tan at 9.75 ft. |
| 10.0- 15.0 | Pale cream to tan sand, medium to coarse grained. Wet at 14.2 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.: 25
2) Boring no./Well no.: P25B007/P25TW007
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/20/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 18.5
8) Depth to water in borehole (BLS): 14
9) Highest open-borehole OVA/HNu reading (ppm): 0
10) Depth of well (BLS): 17.81
11) Length of well screen: 5
12) Length of casing (BLS): 12.81
13) Approx. height of casing above land surface: 2.19
14) Depth to water in well (BTOC): 16.18
15) Elevation of TOC: 23.33
16) Water level elevation: 7.15
17) Date groundwater sampled: 06/21/91
18) pH (units): 6.5
19) Temperature (degrees C): 25
20) Specific conductance (umhos/cm): 130.5
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

---

### BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 5.0 | Light tan sand, medium grained. |
| 5.0- 20.0 | Pale tan sand, medium to coarse grained at 10 ft. Wet at 14 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.: 25
2) Boring no./Well no.: P25B008
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/18/91
6) Geologist: DAN POSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 14
9) Highest open-borehole OVA/HNu reading (ppm): 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 abandonwnt method: Backfilled with cuttings.
22) Comments:

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### BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.2 | Asphalt. |
| 0.2- 0.5 | Reddish-brown silty, sand clayey fill. |
| 0.5- 5.0 | Light brown to tan sand, fine to medium grained. |
| 5.0- 10.0 | Light tan sand, fine to medium grained. |
| 10.0- 15.0 | Cream sand, medium to coarse grained. Wet at 14 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 INFORHATION

1) Site no.: 25
2) Boring no./Well no.: P25B005
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/20/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 14
9) Highest open-borehole OVA/HNu reading (ppm): 0.2
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 | Concrete. |
| 0.25- 5.0 | Medium brown to light brown sand, medium grained. |
| 5.0- 9.0 | Light brown sand, medium to coarse grained. |
| 9.0- 13.0 | Light tan sand, medium to coarse grained. |
| 13.0- 15.0 | Cream sand, medium to coarse grained. Wet at 14 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.: 25
2) Boring no./Well no.: P25B006/P25TW006
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/20/91
6) Geologist: DAN POSS
7) Depth of boring (BLS): 19
8) Depth to water in borehole (BLS): 14.75
9) Highest open-borehole OVA/HNu reading (ppm): 0.4
10) Depth of well (BLS): 18.07
11) Length of well screen: 5
12) Length of casing (BLS): 13.07
13) Approx. height of casing above land surface: 1.86
14) Depth to water in well (BTOC): 16.33
15) Elevation of TOC: 23.72
16) Water level elevation: 7.39
17) Date groundwater sampled: 06/21/91
18) pH (units): 6.45
19) Temperature (degrees C): 35
20) Specific conductance (umhos/cm): 110
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

### BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.3 | Concrete. |
| 0.3- 5.0 | Medium brownish-tan sand, medium grained. |
| 5.0- 8.0 | Light tan sand, medium to coarse grained. |
| 8.0- 19.0 | Pale tan sand, medium to coarse grained. Wet at 14.75 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.: 25
2) Boring no./Well no.: P25B003
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/19/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 14.8
9) Highest open-borehole OVA/HNu reading (ppm): 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:

## BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 5.0 | Light brown sand, medium grained, some grass in upper one inch. |
| 5.0- 10.0 | Light brown sand, becoming medium tan at 5.5 ft., medium to coarse grained. |
| 10.0- 15.0 | Light tan sand, coarse grained. Wet at 14.8 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.: 25
2) Boring no./Well no.: P25B004/P25TW004
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/20/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 13.5
9) Highest open-borehole OVA/HNu reading (ppm): 0.2
10) Depth of well (BLS): 17.55
11) Length of well screen: 5
12) Length of casing (BLS): 12.55
13) Approx. height of casing above land surface: 2.4
14) Depth to water in well (BTOC): 15.62
15) Elevation of TOC: 22.79
16) Water level elevation: 7.17
17) Date groundwater sampled: 06/21/91
18) pH (units): 6.4
19) Temperature (degrees C): 25
20) Specific conductance (umhos/cm): 110
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) **Comments:**

---

## BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.2 | Medium grey, shelly, sandy fill. |
| 0.2- 0.5 | Reddish-brown, sandy, clayey fill. |
| 0.5- 5.0 | Medium brownish-tan sand, medium grained. |
| 5.0- 10.0 | Medium tan lightening to pale tan sand, medium to coarse grained. |
| 10.0- 20.0 | Pale tan sand, medium to coarse grained. Wet at 13.5 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.: 25
2) Boring no./Well no.: P25B001
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/20/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 14
9) Highest open-borehole OVA/HNu reading (ppm): 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:

## BOREEOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.25 | Dark brown, shelly, sandy fill. |
| 0.25- 0.5 | Dark brownish-red, sandy clayey fill. |
| 0.5- 4.0 | Light brownish-tan sand, medium grained, clean. |
| 4.0- 15.0 | Pale tan sand, medium to coarse grained, clean. Wet at 14 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.: 25
2) Boring no./Well no.: P25B002
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/18/91
6) Geologist: DAN POSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 14.5
9) Highest open-borehole OVA/HNu reading (ppm): 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:

## BOREHOLE LITHOLOGIC LOG

| Sample Depth (BLS) | Sample Description |
|---|---|
| 0- 0.5 | Dark brown, shelly, sandy fill. |
| 0.5- 8.5 | Medium tan sand, medium to coarse grained. |
| 8.5- 10.0 | Light tan sand, medium grained. |
| 10.0- 15.0 | Light to pale tan sand, medium to coarse grained. Wet at 14.5 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-diameters 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

# APPENDIX B

## SOIL HEADSPACE DATA

# SITE 25 HEADSPACE SURVEY

| LOCATION and INTERVAL | FEET BLS | OVA UNFILTERED (ppm) | OVA FILTERED (ppm) | BOREHOLE OVA UNFILTERED (ppm) | BOREHOLE OVA FILTERED (ppm) |
|---|---|---|---|---|---|
| P25S001A | 0-5 | 0.0 | NOT ANALYZED (NA) | 0.0 | NA |
| P25S001B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S001C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S002A | 0-5 | 0.0 | NA | 0.0 | NA |
| P25S002B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S002C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S003A | 0-5 | 0.0 | NA | 0.0 | NA |
| P25S003B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S003C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S004A | 0-5 | 0.0 | NA | 0.0 | NA |
| P25S004B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S004C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S005A | 0–5 | 0.0 | NA | 0.0 | NA |
| P25S005B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S005C | 10-15 | 0.0 | NA | 0.2 | NA |
| P25S006A | 0-5 | 0.0 | NA | 0.0 | NA |
| P25S006B | 5-10 | 0.0 | NA | 0.2 | NA |
| P25S006C | 10-15 | 0.0 | NA | 0.2 | NA |
| P25S007A | 0–5 | 0.0 | NA | 0.0 | NA |
| P25S007B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S007C | 10-15, | 0.0 | NA | 0.0 | NA |
| P25S008A | 0-5 | 0.0 | NA | 0.0 | NA |
| P25S008B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S008C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S009A | 0-5 | 0.0 | NA | 0.0 | NA |
| P25S009B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S009C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S009D | 15-20 | 0.0 | NA | 0.0 | NA |
| P25S010A | 0-5 | 0.5 | 0.0 | 6.0 | NA |
| P25S010B | 5-10 | 0.5 | 0.0 | NA | NA |
| P25S010C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S011A | 0-5 | 0.0 | NA | 0.0 | NA |
| P25S011B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S011C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S012A | 0-5 | 0.0 | NA | 0.0 | NA |
| P25S012B | 5-10 | 0.0 | NA | 0.0 | NA |
| P25S012C | 10-15 | 0.0 | NA | 0.2 | NA |
| P25S013A | 0-5 | 0.0 | NA | 1.2 | NA |
| P25S013B | 5-10 | 0.0 | NA | 0.2 | NA |
| P25S013C | 10-15 | 0.0 | NA | 0.2 | NA |
| P25S014A | 0-5 | 0.0 | NA | 0.5 | NA |
| P25S014B | 5-10 | 0.0 | NA | 1.0 | NA |
| P25S014C | 10-15 | 0.0 | NA | 0.5 | NA |
| P25S015A | 0-5 | 0.0 | NA | 0.4 | NA |
| P25S015B | 5-10 | 0.0 | NA | 0.0 | NA |

SITE 25 HEADSPACE SURVEY

| LOCATION and INTERVAL | FEET BLS | OVA UNFILTERED (ppm) | OVA FILTERED (ppm) | BOREHOLE OVA UNFILTERED (ppm) | BOREHOLE OVA FILTERED (ppm) |
|---|---|---|---|---|---|
| P25S015C | 10-15 | 0.0 | NA | 0.0 | NA |
| P25S016A | 0-5 | 1.2 | 0.0 | 0.0 | NA |
| P25S017A | 0-5 | 0.0 | NA | 0.0 | NA |

# APPENDIX F

## SOIL AND GROUNDWATER RADIOCHEMICAL RESULTS

3 9659244976

**ecology and environment, inc.**

388 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

## CHAIN-OF-CUSTODY RECORD



Project No.: 1H8000
Project Name: NAS Pensacola
Project Manager: JOHN BARKSDALE
Samplers: (Signatures)
Field Team Leader: AMY TWITTY

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | GRAB | AIR | SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | RADIUM 226 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| P25S002A | 6/18 | 1429 | X | | | low | SITE 25, B002 | 1 | X | One liter poly |
| P25S002B | 6/18 | 1440 | X | | | | B002 | | X | lot #1092021 |
| P25S002C | 6/18 | 1500 | X | | | | B002 | | X | for B008 |
| P25S008A | 6/18 | 1845 | X | | | | B008 | | X | B010 |
| P25S008B | 6/18 | 1850 | X | | | | B008 | | X | B011 |
| P25S008C | 6/18 | 1857 | X | | | | B008 | | X | lot #1059041 |
| P25S013A | 6/18 | 1640 | X | | | | B013 | | X | for B002 |
| P25S013B | 6/18 | 1650 | X | | | | B013 | | X | B013 |
| P25S013C | 6/18 | 1700 | X | | | | B013 | | X | B014 |
| P25S014A | 6/18 | 1540 | X | | | | B014 | | X | |
| P25S014B | 6/18 | 1550 | X | | | | B014 | | X | |
| S25S014C | 6/18 | 1605 | X | | | | B014 | | X | |
| S25S011A | 6/18 | 1910 | X | | | | B011 | | X | |
| S25S011B | 6/18 | 1919 | X | | | | B011 | | X | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| Amy Twitty | 6/19 1002 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| | | | | | |
| Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) 6/20/91 | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |

Ship Via: Federal Express
BL/Airbill Number: 9659244976
Date: 6/19/91

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International Specialists in the Environment

## CHAIN-OF-CUSTODY RECORD



Project No.: UH8000
Project Name: NAS PENSACOLA
Project Manager: JOHN BARKSDALE
Samplers: (Signature)
Field Team Leader: AMY TWITTY

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE TYPE AIR | SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | RADIUM 226 | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P25S011C | 6/18 | 1925 | X | | | 10W | SITE 25, BC11 | 1 | X | | | | | | |
| P25S010A | 6/19 | 0800 | X | | | | BC10 | 1 | X | | | | | | |
| P25S010B | 6/19 | 0810 | X | | | | BC10 | 1 | X | | | | | | |
| P25S010C | 6/19 | 0820 | X | | | | BC10 | 1 | X | | | | | | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| | 6/19 1002 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |

Ship Via: Federal Express
BL/Airbill Number: 9659244916
Date: 6/19/91

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Please send results to: Ecology & Environment
316 S Baylen St. #670
Pensacola, FL 32501
Attn: Amy Twitty

**ecology and environment, inc.**
388 PLEASANTVIEW DRIVE, LANCASTER, NEW YWK 14086, TEL. 716/684-8060
International Specialists in the Environment

## CHAIN-OF-CUSTODY RECORD



Project No.: WH8020
Project Name: NAS Pensacola
Project Manager: John Barrsdale
Samplers: (Signature)
Field Team Leader: Amy Twitty

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | GRAB | AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | Kodium 224 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| P255 003A | 6/19 | 1400 | X | | | low | Site 25, B003 | | | Lot # 1059041 |
| 003B | | 1412 | X | | | | B003 | | | for one liter Poly's |
| 003C | | 1424 | X | | | | B003 | | | for B004 |
| 015A | | 1250 | X | | | | B015 | | | B007 |
| 015B | | 1300 | X | | | | B015 | | | B012B |
| 015C | | 1312 | X | | | | B015 | | | |
| 009A | 6/20 | 1024 | X | | | | B009 | | | Lot #1092021 for 12 Poly |
| 009B | | 1030 | X | | | | B009 | | | for B003 B006 |
| 009C | | 1042 | X | | | | B009 | | | B005 B012A, C |
| 009D | | 1051 | X | | | | B009 | | | B001 |
| 006A | | 1135 | X | | | | B006 | | | B009 |
| 006B | | 1144 | X | | | | B006 | | | |
| 006C | | 1153 | X | | | | B006 | | | |
| 004A | | 1630 | X | | | | B004 | | | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| Amy Twitty | 6/21/91 800 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| Relinquished By (Signature) | Date/Time | Received For Laboratory By: (Signature) L. Hennon C&P | Relinquished By (Signature) | Date/Time | Received For Laboratory BY (Signature) |

Ship Via: Federal Express
BL/Airbill Number: 9659244965
Date: 6/21/91

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# CHAIN-OF-CUSTODY RECORD



Project No.: WH8020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Sampler(s) (Signature): [illegible]
Field Team Leader: [illegible]

Soil

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE TYPE AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| P255 004B | 6/20 | 1637 | X | | | low | Site 25 B004 | 1 | X |
| 004C | | 1642 | X | | | | B004 | 1 | X |
| 005A | | 0730 | X | | | | B005 | 1 | X |
| 005B | | 0742 | X | | | | B005 | 1 | X |
| 005C | | 0755 | X | | | | B005 | 1 | X |
| 001A | | 0825 | X | | | | B001 | 1 | X |
| 001B | | 0837 | X | | | | B001 | 1 | X |
| 001C | | 0848 | X | | | | B001 | 1 | X |
| 7A | | 1742 | X | | | | B007 | 1 | X |
| 7B | | 1758 | X | | | | B007 | 1 | X |
| 7C | | 1805 | X | | | | B007 | 1 | X |
| 12A | | 1842 | X | | | | B012 | 1 | X |
| 12B | | 1853 | X | | | | B012 | 1 | X |
| 12C | | 1858 | X | | | | B012 | 1 | X |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| [illegible] | 6/21/91 800 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| | | | | | |
| Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |
| | | L. Hancock CLP | | | |

Ship Via: Federal Express
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Date: 6/21/91

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WATER SAMPLES

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International Specialists in the Environment

*please send results to:
E&E
316 S. Baylen St. #670
Pensacola, FL 32501

Page 1 of 1

## CHAIN-OF-CUSTODY RECORD

Project No.: 44B020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Samplers: (Signature)
Field Team Leader: Andy Twitty

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE TYPE AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | Radium 226 | gross alpha | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 256 W006 | 6/21 | 1200 | | X | | low | Site 25, TW006 | 1 | X | X | | | | | |
| 256 W004 | ↓ | 1321 | | X | | ↓ | TW004 | 1 | X | X | | | | | *preserved with $HNO_3$ |
| 256 W004D | | 1321 | | X | | | TW004 | 1 | X | X | | | | | |
| 256 W007 | | 1530 | | X | | | TW007 | 1 | X | X | | | | | |
| 256 W012 | | 1550 | | X | | | TW012 | 1 | X | X | | | | | |
| 256 W011 | | 1630 | | X | | | TW011 | 1 | X | X | | | | | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| [signature] | 6/24/91 0900 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| Relinquished By: (Signature) | Date/Time: 6/25/91 9:20 | Received For Laboratory By: (Signature) Cecilia Rodriguez | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |

Ship Via: Federal Express
BL/Airbill Number: 9659244954
Date: 6/24/91

234055

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## CHAIN-OF-CUSTODY RECORD



Project No.: WH8020 Project Name: NAS Pensacola

Project Manager: John Barksdale

Samplers (Signature): [signature]

Field Team Leader: Amy Tootity

| | STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE TYPE AIR | SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | Bedding Gross Alpha | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOTE | 001A | 6/25 | 0704 | X | | | LOW | Site 27, B001 | 1 | X | | | | | | |
| TOTE | 001B | | 0711 | X | | | | B001 | 1 | X | | | | | | lot #109202 |
| TOTE | 001C | | 0718 | X | | | | B001 | 1 | X | | | | | | B001 |
| TOTE | 001D | | 0726 | X | | | | B001 | 1 | X | | | | | | B008 |
| TOTE | 008A | | 0757 | X | | | | B008 | 1 | X | | | | | | B017 A, AD |
| TOTE | 008B | | 0805 | X | | | | B008 | 1 | X | | | | | | B016 |
| TOTE | 008C | | 0811 | X | | | | B008 | 1 | X | | | | | | |
| TOTE | 008D | | 0819 | X | | | | B008 | 1 | X | | | | | | |
| TOTE | 017A | | 1040 | X | | | | Site 25, B017 | 1 | X | | | | | | |
| TOTE | 017AD | | 1040 | X | | | | B017 | 1 | X | | | | | | |
| TOTE | 016A | | 1020 | X | | | | B016 | 1 | X | | | | | | |
| TOTE | 016AD | | 1020 | X | | | | B016 | 1 | X | | | | | | |
| TOTE | W016 | 015 | 1105 | | X | | (water) | Site 27, W016 15 | 1 | X | X | | | | | |
| Pa'7 | SD001 | 6/26 | 1125 | X | | | Low (sediment) | site 27 SD001 | 1 | X | | | | | | low corn content |

| Relinquished By: (Signature) | Date/Time | Received By: (Signature) | Relinquished By: (Signature) | Date/Time | Received By: (Signature) |
|---|---|---|---|---|---|
| [signature] | 6/26/91 1000 | | | | |
| Relinquished By: (Signature) | Date/Time | Received By: (Signature) | Relinquished By: (Signature) | Date/Time | Received By: (Signature) |
| | | | | | |
| Relinquished By: (Signature) | Date/Time: 6/27/91 7:30 | Received For Laboratory By: (Signature) [signature] CEP | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |

Ship Via: Fed-X

BL/Airbill Number: 9659244906

Date: 6/26/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form.

234066

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Pollution, Inc
P.O. Box 3351
Santa Fe, NM 87502
Attrr:
Phone: (505) 982-9841/(800) 545-2188

RECEIVED
JUL 12 91
PENSACOLA

Ecology and Environment, Inc
316 South Baylen St. #670
Pensacola, FL 32503

Attn: Amy Twitty
Invoice Number:

Order #: 91-06-448
Date: 07/08/91 10:07
Work ID: Soil (NR)
Date Received: 06/20/91
Date Completed: 07/08/91

## SAMPLE IDENTIFICATION

| Sample Number | Sample Description | | Sample Number | Sample Description | |
|---|---|---|---|---|---|
| 01 | P25S002A | Site 25 B002 | 02 | P25S002B | SITE 25, B002 |
| 03 | P25S002C | SITE 25, 0002 | 04 | P25S008A | SITE 25, B008 |
| 05 | P25S008B | SITE 25, B008 | 06 | P25S008C | SITE 25, B00B |
| 07 | P25S013A | SITE 25, B013 | 08 | P25S013B | SITE 25, B013 |
| 09 | P25S013C | SITE 25, B013 | 10 | P25S014A | SITE 25, B014 |
| 11 | P25S014B | SITE 25, 0014 | 12 | S25S014C | SITE 25, B014 |
| 13 | S25S011A | SITE 25, B011 | 14 | S25S011B | SITE 25, B011 |
| 15 | P25S011C | SITE 25, B011 | 16 | P25S010A | SITE 25, B010 |
| 17 | P25S010B | SITE 25, B010 | 18 | P25S010C | SITE 25, B010 |

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Remainder of sample(s) for routine analysis will he disposed of three weeks from final report date Sample(s) for bacteria analysis only, will be disposed of immediately after analysis This is not applicable if other arrangements have been made

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Phone: (505) 982-9841/(800) 545-2188

RECEIVED JUL 18 91 PENSACOLA

Ecology and Environment, Inc
316 South Baylen St. #670
Pensacola, FL 32503

Attn: Amy Twitty
Invoice Number:

Order #: 91-06-520
Date: 07/15/91 12:36
Work ID: Soil (NR)
Date Received: 06/25/91
Date Completed: 07/15/91

## SAMPLE IDENTIFICATION

| Sample Number | Sample Description | | Sample Number | Sample Description | |
|---|---|---|---|---|---|
| 01 | P25S003A | Site 25, B003 | 02 | P25S003B | Site 25, B003 |
| 03 | P25S003C | Site 25, B003 | 04 | P25S015A | Site 25, B015 |
| 05 | P25S015B | Site 25, B015 | 04 | P25S015C | Site 25, B015 |
| 07 | P25S009A | Site 25, B009 | 0e | P25S009B | Site 25, B009 |
| 09 | P25S009C | Site 25, B009 | 10 | P25S009D | Site 25, B009 |
| 11 | P25S006A | Site 25, B006 | 12 | P25S006B | Bite 25, B006 |
| 13 | P25S006C | Site 25, B006 | 14 | P25S004A | Site 25, B004 |
| 15 | P25S004B | Site 25, B004 | 16 | P25S004C | Site 25, B004 |
| 17 | P25S005A | Site 25, B005 | 18 | P25S005B | Site 25, B005 |
| 19 | P25S005C | Site 25, B00S | 20 | P25S001A | Site 25, B001 |
| 21 | P25S001B | Site 25, B001 | 22 | P25S001C | Site 25, B001 |
| 23 | P25S007A | Site 25, B007 | 24 | P25S007B | Site 25, B007 |
| 25 | P25S007C | Site 25, B007 | 2ti | P25S012A | Site 25, B012 |
| 27 | P25S012B | Site 25, B012 | 28 | P25S012C | Site 25, B012 |

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Approved By

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RECEIVED AUG 06 91

Ecology and Environment, Inc.
316 South Baylen St. #670
Pensacola, FL 32503

Attn: Amy Twitty
Invoice Number:

Order #: 91-06-615
Date: 07/30/91 10:27
Work ID: Water (NR)
Date Received: 06/28/91
Date Completed: 07/30/91

## SAMPLE IDENTIFICATION

| Sample Number | Sample Description | Sample Number | Sample Description |
|---|---|---|---|
| 01 | P027GW015 SITE 25 TW015 | | |

Remainder of sample(s) for routine analysis will be disposed of three weeks from final report date. Sample(s) for bacteria analysis only, will be disposed of immediately after analysis. This is not applicable if other arrangements have been made.

Approved By

Ecology and Environment, Inc.
316 South Baylen St. #670
Pensacola, FL 32303

Attn: Amy Twitty

Work ID: Soil (NR)
P O # :

Date Received: 06/28/91
Date Reported: 07/10/91
Work Order: 91-06-614
Category:

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Approved By.

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## TEST RESULTS BY SAMPLE

Sample: 01A P25S002A Site 25 B002 Collected: 06/18/91 14:29

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | 2.9+/-0.4 | | pCi/gram | | |

Sample: 02A P25S002B SITE 25, B002 Collected: 06/18/91 14:40

| Test Description | Result | D.L. | Units | Analuzed |
|---|---|---|---|---|
| Radium-226 | 2.1+/-0.3 | | pCi/gram | |

Sample: 03A P25S002C SITE 25, B002 Collected: 06/18/91 15:00

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 04A P25S008A SITE 25, B008 Collected: 06/18/91 18:45

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Redium-226 | <0.2 | | pCi/gram | | |

Sample: 05A P25S008B SITE 25, B008 Collected: 06/18/91 18:50

| Test Description | Result | D.L. | Units | Analuzed |
|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | |

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Sample: 06A P25S008C SITE 25, B008 Collected: 06/18/91 18:57

| Test Description | Result | ~~D.L.~~ | Units | Analured | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 07A P25S013A SITE 25, B013 Collected: 06/18/91 16:40

| Test Description | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | 0.2+/-0.1 | | pCi/gram | | |

Sample: 08A P25S013B SITE 25, B013 Collected: 06/18/91 16:50

| Test Description | Result | D.L. | Units | Analured | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 09A P25S013C SITE 25, B013 Collected: *06/18/91* 17:00

| Test DescriDtion | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 10A P25S014A SITE 25, B014 Collected: 06/18/91 15:40

| Test Description | Result | D.L. | Units | Analured | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

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Sample: 11A P25S014B SITE 25, 8014 Collected: 06/18/91 15:50

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 12A S25S014C SITE 25, B014 Collected: 06/18/91 16:05

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 13A S25S011A SITE 25, B011 Collected: 06/18/91 19:10

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 14A S25S011B SITE 25, B011 Collected: 06/18/91 19:19

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 15A P25S011C SITE 25, B011 Collected: 04/18/91 19:25

| Test Description | Result | D.L. | Units | Analyzed |
|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | |

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Sample: 16A P25S010A SITE 25, B010 Collected: 06/19/91 08:00

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.2 | | pCi/gram | | |

Sample: 17A P25S010B SITE 25, B010 Collected: 06/19/91 08:10

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | 0.2+/-0.1 | | pCi/gram | | |

Sample: 18A P25S010C SITE 25, B010 Collected: 06/19/91 08:20

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | 0.5+/-0.2 | | pCi/gram | | |

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## TEST RESULTS BY SAMPLE

Sample: 01A P25S003A Site 25, B003 Collected: 04/19/91 14:00

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 02A P25S003B Site 25, B003 Collected: 06/19/91 14:12

| Test Description | Result | D.L. | Units | Analuzed |
|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | |

Sample: 03A P25S003C Site 25, R003 Collected: 06/19/91 14:24

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 04A P25S015A Site 25, B015 Collected: 06/19/91 12:50

| Test Description | Result | D.L. | Units | Analuzed |
|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | |

Sample: 05A P25S015B Site 25, B015 Collected: 06/19/91 13:00

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radiurn-226 | <0.20 | | pCi/gram | | |

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Sample: 06A P25S015C Site 25, B015 Collected: 06/13/91 13:12

| Test Description | Result | D.L. | Units | Analuzed |
|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | |

Sample: 07A P25S009A Site 25, B009 Collected: 06/20/91 10:24

| Test Description | Result | D.L. | Units | Analuzed |
|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | |

Sample: 08A P25S009B Site 25, B009 Collected: 06/20/91 10:30

| Test Description | Result | D.L. | Units | Analuted | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 09A P25S009C Site 25, B009 Collected: 06/20/91 10:42

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 10A P25S009D Site 25, B009 Collected: 06/20/91 10:51

| Test Description | Result | D.L. | Units | Analuzed |
|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | |

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Sample: 11A P25S006A Site 25, B006 Collected. 06/20/91 11:35

| Test Description | Result | D. L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 12A P25S006B Site 25, B006 Collected: 06/20/91 11:44

| Test Description | Result | ~~D.L.~~ | Units | Analyzed |
|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | |

Sample: 13A P25S006C Site 25, B006 Collected. 06/20/91 11:53

| Test Description | Result | D.L. | Units | Analured |
|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | |

Sample: 14A P25S004A Site 25, 8004 Collected: 06/20/91 16:30

| Test Description | Result | ~~D.L.~~ | Units | Analuzed |
|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | |

Sample: 15A P25S004B Site 25, B004 Collected: 06/20/91 16:37

| Test Description | Result | ~~D.L.~~ | Units | Analured | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

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Sample: 16A P25S004C Site 25, B004 Collected: 06/20/91 16:48

| Test Description | Result | ~~D.L.~~ | Units | Analused | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 17A P25S005A Site 25, B005 Collected: 06/20/91 07:28

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 18A P25S005B Site 25, B005 Collected. 06/20/91 07:42

| Test Description | Result | D.L. | Units | Analyzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 19A P25S005C Site 25, B005 Collected: 06/20/91 07:55

| Test Description | Result | D.L. | Units | Analused | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: POA P25S001A Site 25, B001 Collected. 06/20/91 08:25

| Test Descrintion | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

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Sample: 21A P25S001B Site 25, B001 Collected. 06/20/91 08:37

| Test Description | Result | ~~D.L.~~ | Units | Analuted | By |
|---|---|---|---|---|---|
| Radium-226 | (0.20 | | pCi/gram | | |

Sample: 22A P25S001C Site 25, B001 Collected: 06/20/91 08:48

| Test Description | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 23A P25S007A Site 25, B007 Collected: 06/20/91 17:42

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 24A P25S007B Site 25, B007 Collected: 06/20/91 17:58

| Test Description | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 25A P25S007C Site 25, B007 Collected. 06/20/91 18:05

| Test Description | Result | D.L. | Units | Analured | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

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Sample: 264 P25S012A Site 25, 8012 Collected: 06/20/91 18:42

| Test Description | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 274 P25S012B Site 25, B012 Collected: 06/20/91 18:53

| Test Description | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 28A P25S012C Site 25, B012 Collected. 06/20/91 18:58

| Test Description | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

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 CEP, Inc. REPORT Wdk Order # 91-06-614
Received: 06/28/91 Results by Sample

SAMPLE ID P025S016A SITE 25 B016 FRACTION 11A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 10:20:00 Category SOIL

| Type of Analysis | Detection Limit. pCi/gram | RESULT |
|---|---|---|
| Radium-226 | 0.5 | <0.20 |

All results reported in:

UNITS pCi/gram

SAMPLE ID P025S016AD SITE 25 B016 FRACTION 12A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 10:20:00 Category SOIL

| Type of Analysis | Detection Limit pCi/gram | RESULT |
|---|---|---|
| Radium-226 | 0.5 | <0.20 |

All results reported in:

UNITS pCi/gram

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CEP, Inc. REPORT

Work Order # 91-06-614

Received: 06/28/91

Results by Sample

SAMPLE ID P025S017A SITE 25 B017 FRACTION 09A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/25/91 10:40:00 Category SOIL

| Type of Analysis | Detection Limit pCi/gram | RESULT |
|---|---|---|
| Radium-226 | 0.5 | <0.20 |

All results reported in:

UNITS pCi/gram

SAMPLE ID P025S017AD SITE 25 B017 FRACTION 10A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/25/91 10:40:00 Category SOIL

| Type of Analysis | Detection Limit pCi/gram | RESULT |
|---|---|---|
| Radium-226 | 0.5 | <0.20 |

All results reported in

UNITS pCi/gram

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 CEP, Inc. REPORT Work Order # 91-06-525

Received: 06/25/91

Results by Sample

SAMPLE ID P25GW006 Site 25, TW006 FRACTION 01A TEST CODE RA2261 NAME Radium-226
Date & Time Collected 06/21/91 12:00:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 7.5+/-3.0 |

All results reported in:

UNITS pCi/liter

SAMPLE ID P25GW004 Site 25, TW004 FRACTION 02A TEST CODE RA2261 NAME Radium-226
Date & Time Collected 06/21/91 13:27:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.4 | 4.5+/-2.6 |

All results reported in

UNITS pCi/liter

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 CEP, Inc. REPORT Wok Order # 91-06-525

Received: 06/25/91 Results by Sample

SAMPLE ID P25GW004D Site 25, TW004 FRACTION 03A TEST CODE RA2261 NAME Radium-226

Date & Time Collected 06/21/91 13:27:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 6.4+/-3.0 |

All results reported in:

UNITS pCi/liter

SAMPLE ID P25GW007 Site 25, TW007 FRACTION 04A TEST CODE RA2261 NAME Radium-226

Date & Time Collected 06/21/91 15:30:00 Category WATER

| Type of! Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 10.8+/-3.4 |

All results reported in:

UNITS pCi/liter

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 CEP, Inc. REPORT Work Order # 91-06-525

Received: 06/25/91

Results by Sample

SAMPLE ID P25GW012 Site 25, TW012 FRACTION 05A TEST CODE RA2261 NAME Radium-226
Date & Time Collected 06/21/91 15:50:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 15.5+/-4.5 |

All results reported in:

UNITS pCi/liter

SAMPLE ID P25GW011 Site 25, TW011 FRACTION 06A TEST CODE RA2261 NAME Radium-226
Date & Time Collected 06/21/91 16:30:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 16.1+/-3.9 |

All results reported in:

UNITS pCi/liter

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Ecology and Environment, Inc.
316 South Baylen St. #670
Pensacola, FL 32303

Attn: Amy Twitty

Work ID: Water (NR
P O #:

JUL 24 91

Date Received: 06/25/91
Date Reported: 07/17/91
Work Order: 91-06-525
Category:

| Test | Units | P25GW006 Site 25, TW006 06/21/91 12:00 | P25GW004 Site 25, TW004 06/21/91 13:27 | P25GW004D Site 25, TW004 06/21/91 13:27 | P25GW007 Site 25, TW007 06/21/91 15:30 |
|---|---|---|---|---|---|
| Gross Alpha | pCi/liter | 4+/-3* | 6+/-5* | 6+/-5* | 9+/-6* |

| Test | Units | P25GW012 Site 25, TW012 06/21/91 15:50 | P25GW011 Site 25, TW011 06/21/91 16:30 | P27GW010 Site 27 TW010 06/24/91 11:25 |
|---|---|---|---|---|
| Gross Alpha | pCi/liter | 7+/-5* | 11+/-5 | <2 |
| pH | units | | | 1.37 |

Approved By:

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IN STATE 505/982 9841



## TEST RESULTS BY SAMPLE

Sample: 01A P027GW015 SITE 25 TW015 Collected: 06/25/91 17:05

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Gross Alpha | 8+/-3 | 2 | pCi/liter | | |
| Radium-226 | 8.7+/-3.2 | 0.6 | pCi/liter | | |

D 9659244976

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International Specialists in the Environment

# CHAIN-OF-CUSTODY RECORD



Project No.: JH8000
Project Name: NAS Pensacola
Project Manager: JOHN BARKSDALE
Samplers: (Signatures)
Field Team Leader: AMY TWITTY

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | GRAB | AIR | SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | RADIUM 226 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 255002 A | 6/18 | 1429 | X | | | low | SITE 25, B002 | 1 | X | One liter poly |
| 255002 B | 6/18 | 1440 | X | | | | B002 | | X | lot #1092021 |
| 255002 C | 6/18 | 1500 | X | | | | B002 | | X | for B008 |
| 255008 A | 6/18 | 1845 | X | | | | B008 | | X | B010 |
| 255008 B | 6/18 | 1850 | X | | | | B008 | | X | B011 |
| 255008 C | 6/18 | 1857 | X | | | | B008 | | X | lot #1059041 |
| 255013 A | 6/18 | 1640 | X | | | | B013 | | X | for B002 |
| 255013 B | 6/18 | 1650 | X | | | | B013 | | X | B013 |
| 255013 C | 6/18 | 1700 | X | | | | B013 | | X | B014 |
| 255014 A | 6/18 | 1540 | X | | | | B014 | | X | |
| 255014 B | 6/18 | 1550 | X | | | | B014 | | X | |
| 255014 C | 6/18 | 1605 | X | | | | B014 | | X | |
| 255011 A | 6/18 | 1910 | X | | | | B011 | | X | |
| 255011 B | 6/18 | 1919 | X | | | | B011 | | X | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| Amy Twitty | 6/19 1002 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| | | | | | |
| Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |
| | | | | | |

Ship Via: Federal Express
BL/Airbill Number: 9659244976
Date: 6/19/91

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

234055

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Sample: 11A P25S006A Site 25, B006 Collected: 06/20/91 11:35

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Redium-226 | <0.20 | | pCi/gram | | |

Sample: 12A P25S006B Site 25, B006 Collected: 06/20/91 11:44

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 13A P25S006C Site 25, B006 Collected. 06/20/91 11:53

| Test Description | Result | D.L. | Units | Analured | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 14A P25S004A Site 25, B004 Collected: 06/20/91 16:30

| Test Description | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Rediurn-226 | <0.20 | | pCi/gram | | |

Sample: 15A P25S004B Site 25, B004 Collected: 06/20/91 16:37

| Test Description | Result | ~~D.L.~~ | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

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Sample: 21A P25S001B Site 25, B001 Collected. 06/20/91 08:37

| Test Dercription | Result | D.L. | Units | Analured | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 22A P25S001C Site 25, B001 Collected. 06/20/91 08:48

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 23A P25S007A Site 25, B007 Collected: 06/20/91 17:42

| Test Description | Result | D.L. | Units | Analured | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 24A P25S007B Site 25, B007 Collected: 06/20/91 17:58

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

Sample: 23A P25S007C Site 25, B007 Collected 06/20/91 18:05

| Test Description | Result | D.L. | Units | Analuzed | By |
|---|---|---|---|---|---|
| Radium-226 | <0.20 | | pCi/gram | | |

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 CEP, Inc. REPORT Work Order # 91-06-614

tceived: 06/28/91 Results by Sample

AMPLE ID P025S016A SITE 25 B016 FRACTION 11A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 10:20:00 Category SOIL

| Type of Analysis | Detection Limit pCi/gram | RESULT |
|---|---|---|
| Radium-226 | 0.5 | <0.20 |

All results reported in

UNITS pCi/gram

AMPLE ID P025S016AD SITE 25 B016 FRACTION 12A TEST CODE RA2265 NAME Radium326
Date & Time Collected 06/25/91 10:20:00 Category SOIL

| Type of Analysis | Detection Limit pCi/gram | RESULT |
|---|---|---|
| Radium-226 | 0.5 | <0.20 |

All results reported in:

UNITS pCi/gram

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 CEP, Inc. REPORT Work Order # 91-06-525

eceived: 06/25/91

Results by Sample

SAMPLE ID P25GW006 Site 25, TW006 FRACTION 01A TEST CODE RA2261 NAME Radium-226
Date & Time Collected 06/21/91 12:00:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 7.5+/-3.0 |

All results reported in:

UNITS pCi/liter

SAMPLE ID P25GW004 Site 25, TW004 FRACTION 02A TEST CODE RA2261 NAME Radium-226
Date & Time Collected 06/21/91 13:27:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 4.5+/-2.6 |

All results reported in

UNITS pCi/liter

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 CEP, Inc. REPORT Work Order # 91-06-525

Received: 06/25/91 Results by Sample

SAMPLE ID P25GW012 Site 25, TW012 FRACTION 05A TEST CODE RA2261 NAME Radium-226
Date & Time Collected 06/21/91 15:50:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 15.5+/-4.5 |

All results reported in

UNITS pCi/liter

SAMPLE ID P25GW011 Site 25, TW011 FRACTION 06A TEST CODE RA2261 NAME Radium-226
Date & Time Collected 06/21/91 16:30:00 Category WATER

| Type of Analysis | Detection Limit pCi/L | RESULT |
|---|---|---|
| Radium-226 | 0.6 | 16.1+/-3.9 |

All results reported in:

UNITS pCi/liter

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## TEST RESULTS BY SAMPLE

Sample: 01A P027GW015 SITE 25 TW015 Collected: 06/29/91 17:05

| Test Description | Result | D.L. | Units | Analuted | By |
|---|---|---|---|---|---|
| Gross Alpha | 8+/-3 | 2 | pCi/liter | | |
| Radium-226 | 8.7+/-3.2 | 0.6 | pCi/liter | | |

# APPENDIX G

## SOIL SAMPLING ANALYTICAL SCREENING RESULTS

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn G Hahn/p

DATE: June 26, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.437

CC: Lab File

Attached is the laboratory report of the analysis conducted on eighteen samples received at the Analytical Services Center on June 20, 1991. Analysis was performed according to the screening procedures set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SU-846, Third Edition, U.S. EPA, 1986.

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/jP
Enclosure

**MEMORANDUM**

TO: John Barksdale

FROM: Gary Hahn

DATE: July 2, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.473

CC: Lab File

Attached is the laboratory report of the analysis conducted on thirty-four samples received at the Analytical Services Center on June 22, 1991. Analysis vas 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.

Ph samples #14219, #14220, #14221, #14222, #14223, and #14224 were incorrectly preserved.

All samples on vhich this report is based will be retained by E & E for a period of 30 days from the date of this report unless othervise 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, vith 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 11, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.506

CC: Lab File

Attached is the laboratory report of the analysis conducted on four 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 & B 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

DATE: July 25, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.741

CC: Lab File

Attached is the laboratory report of the analysis conducted on one hundred thirteen samples received at the Analytical Services Center on July 18, 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

01.437

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14013 → 14030

# CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Project No.: 1148030
Project Name: NAS Pensacola
Project Manager: John Forkscale
Samplers: (Signature) [illegible]
Field Team Leader: Andy Tuttle

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | GRAB | AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | Screening VOCs | Screening TPH | Screening Metals | Screening PAHs | Screening Phenols | Screening Pesticides | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25B002A | 6/18 | 1439 | X | | | ✓ low | Site 25, B002 | 3 | X | X | X | X | X | X | 8oz jars |
| 25B002B | 6/18 | 1440 | X | | | ✓ | B002 | | X | X | X | X | X | X | lot #X0331013 |
| 25S002C | 6/18 | 1500 | X | | | ✓ | B002 | | X | X | X | X | X | X | B015 |
| 25S014A | 6/18 | 1540 | X | | | ✓ | B014 | | X | X | X | X | X | X | B010 |
| 25S014B | 6/18 | 1550 | X | | | ✓ | B014 | | X | X | X | X | X | X | B008B & C |
| 25S014C | 6/18 | 1605 | X | | | ✓ | B014 | | X | X | X | X | X | X | |
| 25S013A | 6/18 | 1640 | X | | | ✓ | B013 | | X | X | X | X | X | X | lot #1091051 |
| 25S013B | 6/18 | 1650 | X | | | ✓ | B013 | | X | X | X | X | X | X | B002 |
| 25S013C | 6/18 | 1700 | X | | | ✓ | B013 | | X | X | X | X | X | X | B013 |
| 25S008A | 6/18 | 1845 | X | | | ✓ | B008 | | X | X | X | X | X | X | B014 |
| 25S008B | 6/18 | 1850 | X | | | ✓ | B008 | | X | X | X | X | X | X | B008A |
| 25S008C | 6/18 | 1857 | X | | | ✓ | B008 | | X | X | X | X | X | X | |
| 25S011A | 6/18 | 1910 | X | | | ✓ | B011 | | X | X | X | X | X | X | |
| 25S011B | 6/18 | 1919 | X | | | ✓ | B011 | | X | X | X | X | X | X | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| [illegible] | 10:00 6/19/91 | Fed Ex | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| | | | | | |
| Relinquished By: (Signature) | Date/Time: 0930 6-20-91 | Received For Laboratory By: (Signature) [illegible] | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |
| Fed Ex | | | | | |

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Date: 6/19/91

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# CHAIN-OF-CUSTODY RECORD



Project No.: 418020
Project Name: NAS Pensacola
Project Manager: John Parksdale
Sampled: (Signature)
Field Team Leader:

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | GRAB | AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | Screening VOCs | Screening Metals | Screening BNAs | Screening Phenols | Screening TEPH | Screening Pesticides PCBs | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P25S 011C | 6/18 | 1925 | X | | | ✓ low | Site 25, B011 | 3 | X | X | X | X | X | X | |
| P25S 010A | 6/19 | 0800 | X | | | ✓ " | B010 | 3 | X | X | X | X | X | X | |
| P25S 010B | 6/19 | 0800 | X | | | ✓ " | B010 | 3 | X | X | X | X | X | X | |
| P25 010C | 6/19 | 0830 | X | | | " | B010 | 3 | X | X | X | X | X | X | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Ship Via |
|---|---|---|---|---|---|---|
| | 18:00 6/19/91 | Fed Ex | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | BL/Airbill Number: / Date: |
| Relinquished By: (Signature) Fed Ex | Date/Time: 8pm 6-20-91 | Received For Laboratory By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | |

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# CHAIN-OF-CUSTODY RECORD



Project No.: 4H0030
Project Name: NASPensacola
Project Manager: John Barksdale
Samplers (Signature): [signature]
Field Team Leader: Cindy Twitty

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE TYPE AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | SCREENING VOCs | SCREENING TRPH | SCREENING PAHs | SCREENING PHENOLS | SCREENING PESTICIDES | SCREENING METALS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25S003A | 6/19 | 1400 | X | | | IDW | Site 25, B003 | 3 | X | X | X | X | X | X | |
| 25S003B | | 1412 | X | | | | B003 | | X | X | X | X | X | X | LOT # 1092021 FOR 1L POLY |
| 25S003C | | 1424 | X | | | | B003 | | X | X | X | X | X | X | B003 B006 |
| 25S015A | | 1250 | X | | | | B015 | | X | X | X | X | X | X | B005 B012 A+C |
| 25S015B | | 1300 | X | | | | B015 | | X | X | X | X | X | X | B001 |
| 25S015C | | 1312 | X | | | | B015 | | X | X | X | X | X | X | B009 |
| 25S009A | 6/20 | 1024 | X | | | | B009 | | X | X | X | X | X | X | |
| 25S009B | | 1030 | X | | | | B009 | | X | X | X | X | X | X | LOT # 1059041 FOR 1L POLY |
| 25S009C | | 1042 | X | | | | B009 | | X | X | X | X | X | X | B004 B012B |
| 25S009D | | 1051 | X | | | | B009 | | X | X | X | X | X | X | B007 |
| 25S006A | | 1135 | X | | | | B006 | | X | X | X | X | X | X | |
| 25S006B | | 1144 | X | | | | B006 | | X | X | X | X | X | X | LOT # X033013 FOR 8oz JAR |
| 25S006C | | 1153 | X | | | | B006 | | X | X | X | X | X | X | B001, B006, B007, B012 |
| 25S004A | | 1630 | X | | | | B004 | | X | X | X | X | X | X | B009, B005, B009, B003 |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Ship Via: |
|---|---|---|---|---|---|---|
| [signature] | 6/21/91 800 | | | | | FED EX |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | BL/Airbill Number: 0776545980 |
| Relinquished By: (Signature) Fed. Express | Date/Time: 6-22-91/1000 | Received For Laboratory By: (Signature) [signature] | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | Date: |

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# CHAIN-OF-CUSTODY RECORD



Project No.: UH8020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Sampling Team (Signature): [illegible]
Field Team Leader: [illegible]

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | GRAB | AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | Screening VOCs | Screening TEPH | Screening PAHs | Screening Phenols | Screening Pesticides & PCBs | Screening Metals | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SS004B | 6/20 | 1637 | X | | | low | Site 25, B004 | 3 | X | X | X | X | X | X | |
| SS004C | | 1648 | X | | | | B004 | | | | | | | | |
| SS005A | | 0728 | X | | | | B005 | | | | | | | | |
| SS005B | | 0742 | X | | | | B005 | | | | | | | | |
| SS005C | | 0755 | X | | | | B005 | | | | | | | | |
| SS001A | | 0825 | X | | | | B001 | | | | | | | | |
| SS001B | | 0837 | X | | | | B001 | | | | | | | | |
| SS001C | | 0848 | X | | | | B001 | | | | | | | | |
| SS007A | | 1742 | X | | | | B007 | | | | | | | | |
| SS007B | | 1750 | X | | | | B007 | | | | | | | | |
| SS007C | | 1805 | X | | | | B007 | | | | | | | | |
| SS012A | | 1842 | X | | | | B012 | | | | | | | | |
| SS012B | | 1853 | X | | | | B012 | | | | | | | | |
| SS012C | | 1858 | X | | | | B012 | | | | | | | | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| [illegible] | 6/21/91 1800 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| | | | | | |
| Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |
| Fed. Express | 6-22-91/1000 | [illegible] | | | |

Ship Via: Federal X-press
BL/Airbill Number:
Date:

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

234055

Job # 9101.506
Sample Range 14495 — 14498

**ecology and environment, inc.**
300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

## CHAIN-OF-CUSTODY RECORD

Page 4

Project No.: UH8020
Project Name: NAS PENSACOLA
Project Manager: JOHN BARKSDALE
Samplers: (Signatures)
Field Team Leader: AMY TWITTY

| STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | GRAB | AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | SCREENING METALS | SCREENING TPDH | SCREENING Phenols | SCREENING ~~Pesticides~~ VOCS | SCREENING PAHs | SCREENING Pesticides + total Pesticides | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 275001A | 6/25 | 0704 | X | | | low | SITE 22, B001 | 3 | X | X | X | X | X | X | VOCS |
| 275001B | 6/25 | 0711 | X | | | | B001 | 3 | X | X | X | X | X | X | LOT #1123033 |
| 275001C | 6/25 | 0718 | X | | | | B001 | 3 | X | X | X | X | X | X | (B016 B017 |
| 275001D | 6/25 | 0726 | X | | | | B001 | 3 | X | X | X | X | X | X | Site 25) |
| 275008A | 6/25 | 0797 | X | | | | B008 | 3 | X | X | X | X | X | X | |
| 275008B | 6/25 | 0805 | X | | | | B008 | 3 | X | X | X | X | X | X | |
| 275008C | 6/25 | 0811 | X | | | | B008 | 3 | X | X | X | X | X | X | 802 jars |
| 275008D | 6/25 | 0819 | X | | | | B008 | 3 | X | X | X | X | X | X | #1093011 B1ABCD |
| 275017A | 6/25 | 1040 | X | | | | SITE 25, B017 | 3 | X | X | X | X | X | X | B8 ABC |
| 275017D | 6/25 | 1040 | X | | | | B017 | 3 | X | X | X | X | X | X | #1091051 B16A 16AD |
| 275016A | 6/25 | 1020 | X | | | | B016 | 3 | X | X | X | X | X | X | B8D |
| 275016D | 6/25 | 1020 | X | | | | B016 | 3 | X | X | X | X | X | X | |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Ship Via: |
|---|---|---|---|---|---|---|
| | 6/26/91 1700 | Fed Ex | | | | FEDERAL EXPRESS |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | BL/Airbill Number: 0776546120 — Date: 6/23/91 |
| Relinquished By: (Signature) Fed Ex | Date/Time: 0730 6.26.91 | Received For Laboratory By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | |

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

234065

JOB NUMBER : 9101.437

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14013.01 | P25-S002A | SPNPRGI | 06/18/91 | | 06/21/91 |
| 14013.02 | P25-S002A | SPNTPH1 | 06/18/91 | | 06/21/91 |
| 14013.03 | P25-S002A | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHL1 | 06/18/91 | | 06/24/91 |
| 14014.01 | P25-S002B | SPNPRGI | 06/18/91 | | 06/21/91 |
| 14014.02 | P25-S002B | SPNTPH1 | 06/18/91 | | 06/21/91 |
| 14014.03 | P25-S002B | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHL1 | 06/18/91 | | 06/24/91 |
| 14015.01 | P25-S002C | SPNPRGI | 06/18/91 | | 06/21/91 |
| 14015.02 | P25-S002C | SPNTPEI | 06/18/91 | | 06/21/91 |
| 14015.03 | P25-S002C | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHL1 | 06/18/91 | | 06/24/91 |
| 14016.01 | P25-S014A | SPNPRGI | 06/18/91 | | 06/21/91 |
| 14016.02 | P25-S014A | SPNTPEI | 06/18/91 | | 06/21/91 |
| 14016.03 | P25-S014A | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHLI | 06/18/91 | | 06/24/91 |
| 14017.01 | P25-S014B | SPNPRGI | 06/18/91 | | 06/21/91 |
| 14017.02 | P25-S014B | SPNTPHI | 06/18/91 | | 06/21/91 |
| 14017.03 | P25-S014B | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNPLPl | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHL1 | 06/18/91 | | 06/24/91 |
| 14018.01 | P25-S014C | SPNPRG1 | 06/18/91 | | 06/21/91 |
| 14018.02 | P25-S014C | SPNTPH1 | 06/18/91 | | 06/21/91 |
| 14018.03 | P25-S014C | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHL1 | 06/18/91 | | 06/24/91 |
| 14019.01 | P25-S013A | SPNPRGI | 06/18/91 | | 06/21/91 |
| 14019.02 | P25-S013A | SPNTPH1 | 06/18/91 | | 06/21/91 |
| 14019.03 | P25-S013A | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHLI | 06/18/91 | | 06/24/91 |
| 14020.01 | P25-S013B | SPNPRG1 | 06/18/91 | | 06/21/91 |
| 14020.02 | P25-S013B | SPNTPH1 | 06/18/91 | | 06/21/91 |
| 14020.03 | P25-S013B | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |

JOB NUMBER : 9101.437

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAHPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14020.03 | P25-S013B | SPNPHLl | 06/18/91 | | 06/24/91 |
| 14021.01 | P25-S013C | SPNPRGl | 06/18/91 | | 06/21/91 |
| 14021.02 | P25-S013C | SPNTPHl | 06/18/91 | | 06/21/91 |
| 14021.03 | P25-S013C | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAHl | 06/18/91 | | 06/24/91 |
| | | SPNPHLl | 06/18/91 | | 06/24/91 |
| 14022.01 | P25-S008A | SPNPRGl | 06/18/71 | | 06/21/91 |
| 14022.02 | P25-S008A | SPNTPHl | 06/18/71 | | 06/21/91 |
| 14022.03 | P25-S008A | SPNMET1 | 06/18/71 | | 06/21/91 |
| | | SPNP&P1 | 06/18/71 | | 06/21/91 |
| | | SPNPAH1 | 06/18/71 | | 06/24/91 |
| | | SPNPHLl | 06/18/71 | | 06/24/91 |
| 14023.01 | P25-S008B | SPNPRGl | 06/18/91 | | 06/21/91 |
| 14023.02 | P25-S008B | SPNTPHl | 06/18/91 | | 06/21/91 |
| 14023.03 | P25-S008B | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHLl | 06/18/91 | | 06/24/91 |
| 14024.01 | P25-S008C | SPNPRGl | 06/18/91 | | 06/21/91 |
| 14024.02 | P25-S008C | SPNTPHl | 06/18/91 | | 06/21/91 |
| 14024.03 | P25-S008C | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHL1 | 06/18/91 | | 06/24/91 |
| 14025.01 | P25-S011A | SPNPRGl | 06/18/91 | | 06/21/91 |
| 14025.02 | P25-S011A | SPNTPHl | 06/18/91 | | 06/21/91 |
| 14025.03 | P25-S011A | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAHl | 06/18/91 | | 06/24/91 |
| | | SPNPHLl | 06/18/91 | | 06/25/91 |
| 14026.01 | P25-S011B | SPNPRGl | 06/18/91 | | 06/21/91 |
| 14026.02 | P25-S011B | SPNTPHl | 06/18/91 | | 06/21/91 |
| 14026.03 | P25-S011B | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNP&P1 | 06/18/91 | | 06/21/91 |
| | | SPNPAH1 | 06/18/91 | | 06/24/91 |
| | | SPNPHLl | 06/18/91 | | 06/25/91 |
| 14027.01 | P25-S011C | SPNPRGl | 06/18/91 | | 06/21/91 |
| 14027.02 | P25-S011C | SPNTPHl | 06/18/91 | | 06/21/91 |
| 14027.03 | P25-S011C | SPNMET1 | 06/18/91 | | 06/21/91 |
| | | SPNPLPl | 06/18/91 | | 06/22/91 |
| | | SPNPAH1 | 06/18/91 | | 06/25/91 |
| | | SPNPHLl | 06/18/91 | | 06/25/91 |
| 14028.01 | P25-S010A | SPNPRGl | 06/19/91 | | 06/21/91 |
| 14028.02 | P25-S010A | SPNTPHl | 06/19/91 | | 06/21/91 |
| 14028.03 | P25-S010A | SPNMET1 | 06/19/91 | | 06/21/91 |
| | | SPNP&P1 | 06/19/91 | | 06/22/91 |

JOB NUMBER : 9101.437

Bcology and Environment. Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14028.03 | P25-S010A | SPNPAH1 | 06/19/91 | | 06/24/91 |
| | | SPNPHL1 | 06/19/91 | | 06/25/91 |
| 14029.01 | P25-S010B | SPNPRG1 | 06/19/91 | | 06/22/91 |
| 14029.02 | P25-S010B | SPNTPH1 | 06/19/91 | | 06/21/91 |
| 14029.03 | P25-S010B | SPNMET1 | 06/19/91 | | 06/21/91 |
| | | SPNP&P1 | 06/19/91 | | 06/22/91 |
| | | SPNPAH1 | 06/19/91 | | 06/24/91 |
| | | SPNPHL1 | 06/19/91 | | 06/25/91 |
| 14030.01 | P25-S010C | SPNPRG1 | 06/19/91 | | 06/21/91 |
| 14030.02 | P25-S010C | SPNTPH1 | 06/19/91 | | 06/21/91 |
| 14030.03 | P25-S010C | SPNMET1 | 06/19/91 | | 06/21/91 |
| | | SPNP&P1 | 06/19/91 | | 06/22/91 |
| | | SPNPAH1 | 06/19/91 | | 06/24/91 |
| | | SPNPHL1 | 06/19/91 | | 06/25/91 |

JOB NUMBER : 9101.473

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14219.01 | P25-GW004 | WPNPRGl | 06/21/91 | | 06/24/91 |
| 14219.03 | P25-GW004 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHL1 | 06/21/91 | | 06/28/91 |
| 14219.04 | P25-GW004 | WPNTPHl | 06/21/91 | | 06/24/91 |
| 14219.05 | P25-GW004 | WPNMETl | 06/21/91 | | 06/25/91 |
| 14220.01 | P25-GW004D | WPNPRGl | 06/21/91 | | 06/24/91 |
| 14220.03 | P25-GW004D | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHLl | 06/21/91 | | 06/28/91 |
| 14220.04 | P25-GW004D | WPNTPHl | 06/21/91 | | 06/24/91 |
| 14220.05 | P25-GW004D | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14221.01 | P25-GW006 | WPNPRGl | 06/21/91 | | 06/24/91 |
| 14221.03 | P25-GW006 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHLl | 06/21/91 | | 06/28/91 |
| 14221.04 | P25-GW006 | WPNTPH1 | 06/21/91 | | 06/24/91 |
| 14221.05 | P25-GW006 | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14222.01 | P25-GW007 | WPNPRGl | 06/21/91 | | 06/24/91 |
| 14222.03 | P25-GW007 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAEl | 06/21/91 | | 06/26/91 |
| | | WPNPHLl | 06/21/91 | | 06/28/91 |
| 14222.04 | P25-GW007 | WPNTPHl | 06/21/91 | | 06/24/91 |
| 14222.05 | P25-GW007 | WPNMETl | 06/21/91 | | 06/25/91 |
| 14223.01 | P25-GW011 | WPNPRG1 | 06/21/91 | | 06/24/91 |
| 14223.03 | P25-GW011 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHLl | 06/21/91 | | 06/28/91 |
| 14223.04 | P25-GW011 | WPNTPHl | 06/21/91 | | 06/24/91 |
| 14223.05 | P25-GW011 | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14224.01 | P25-GW012 | WPNPRGl | 06/21/91 | | 06/24/91 |
| 14224.03 | P25-GW012 | WPNPCP1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHLl | 06/21/91 | | 06/28/91 |
| 14224.04 | P25-GW012 | WPNTPH1 | 06/21/91 | | 06/24/91 |
| 14224.05 | P25-GW012 | WPNMETl | 06/21/91 | | 06/25/91 |
| 14225.01 | P25-S001A | SPNPRG1 | 06/20/91 | | 06/24/91 |
| 14225.02 | P25-S001A | SPNTPH1 | 06/20/91 | | 06/24/91 |
| 14225.03 | P25-S001A | SPNMETl | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/25/91 |
| | | SPNPHL1 | 06/20/91 | | 06/25/91 |
| 14226.01 | P25-S001B | SPNPRGl | 06/20/91 | | 06/24/91 |
| 14226.02 | P25-S001B | SPNTPH1 | 06/20/91 | | 06/24/91 |
| 14226.03 | P25-S001B | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/25/91 |

JOB NUMBER : 9101.473

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14226.03 | P25-S001B | SPNPEL1 | 06/20/91 | | 06/25/91 |
| 14227.01 | P25-S001C | SPNPRG1 | 06/20/91 | | 06/24/91 |
| 14227.02 | P25-S001C | SPNTPH1 | 06/20/91 | | 06/24/91 |
| 14227.03 | P25-S001C | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/25/91 |
| | | SPNPHL1 | 06/20/91 | | 06/25/91 |
| 14228.01 | P25-S003A | SPNPRG1 | 06/19/91 | | 06/24/91 |
| 14228.02 | P25-S003A | SPNTPH1 | 06/19/91 | | 06/24/91 |
| 14228.03 | P25-S003A | SPNMET1 | 06/19/91 | | 06/25/91 |
| | | SPNP&P1 | 06/19/91 | | 06/24/91 |
| | | SPNPAH1 | 06/19/91 | | 06/25/91 |
| | | SPNPEL1 | 06/19/91 | | 06/25/91 |
| 14229.01 | P25-S003B | SPNPRG1 | 06/19/91 | | 06/24/91 |
| 14229.02 | P25-S003B | SPNTPE1 | 06/19/91 | | 06/24/91 |
| 14229.03 | P25-S003B | SPNMET1 | 06/19/91 | | 06/25/91 |
| | | SPNP&P1 | 06/19/91 | | 06/24/91 |
| | | SPNPAH1 | 06/19/91 | | 06/25/91 |
| | | SPNPEL1 | 06/19/91 | | 06/25/91 |
| 14230.01 | P25-S003C | SPNPRG1 | 06/19/91 | | 06/24/91 |
| 14230.02 | P25-S003C | SPNTPE1 | 06/19/91 | | 06/24/91 |
| 14230.03 | P25-S003C | SPNMET1 | 06/19/91 | | 06/25/91 |
| | | SPNP&P1 | 06/19/91 | | 06/24/91 |
| | | SPNPAH1 | 06/19/91 | | 06/25/91 |
| | | SPNPEL1 | 06/19/91 | | 06/25/91 |
| 14231.01 | P25-S004A | SPNPRG1 | 06/20/91 | | 06/24/91 |
| 14231.02 | P25-S004A | SPNTPE1 | 06/20/91 | | 06/24/91 |
| 14231.03 | P25-S004A | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/28/91 |
| | | SPNPEL1 | 06/20/91 | | 06/25/91 |
| 14232.01 | P25-S004B | SPNPRG1 | 06/20/91 | | 06/25/91 |
| 14232.02 | P25-S004B | SPNTPH1 | 06/20/91 | | 06/24/91 |
| 14232.03 | P25-S004B | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/25/91 |
| | | SPNPEL1 | 06/20/91 | | 06/25/91 |
| 14233.01 | P25-S004C | SPNPRG1 | 06/20/91 | | 06/25/91 |
| 14233.02 | P25-S004C | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/25/91 |
| | | SPNPHL1 | 06/20/91 | | 06/27/91 |
| | | SPNTPE1 | 06/20/91 | | 06/24/91 |
| 14234.01 | P25-S005A | SPNPRG1 | 06/20/91 | | 06/25/91 |
| 14234.02 | P25-S005A | SPNTPH1 | 06/20/91 | | 06/25/91 |
| 14234.03 | P25-S005A | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |

JOB NUMBER : 9101.473

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14234.03 | P25-S005A | SPNPAHl | 06/20/91 | | 06/25/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14235.01 | P25-S005B | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14235.02 | P25-S005B | SPNTPHl | 06/20/91 | | 06/25/91 |
| 14235.03 | P25-S005B | SPNMETl | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAHl | 06/20/91 | | 06/25/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14236.01 | P25-S005C | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14236.02 | P25-S005C | SPNTPH1 | 06/20/91 | | 06/25/91 |
| 14236.03 | P25-S005C | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNPCPl | 06/20/91 | | 06/24/91 |
| | | SPNPAHl | 06/20/91 | | 06/25/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14237.01 | P25-S006A | SPNPRG1 | 06/20/91 | | 06/25/91 |
| 14237.02 | P25-S006A | SPNTPHl | 06/20/91 | | 06/25/91 |
| 14237.03 | P25-S006A | SPNMETl | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAHl | 06/20/91 | | 06/25/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14238.01 | P25-S006B | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14238.02 | P25-S006B | SPNTPHl | 06/20/91 | | 06/25/91 |
| 14238.03 | P25-S006B | SPNMETl | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAHl | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14239.01 | P25-S006C | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14239.02 | P25-S006C | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAHl | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| | | SPNTPHl | 06/20/91 | | 06/25/91 |
| 14240.01 | P25-S007A | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14240.02 | P25-S007A | SPNTPHl | 06/20/91 | | 06/25/91 |
| 14240.03 | P25-S007A | SPNMETl | 06/20/91 | | 06/25/91 |
| | | SPNPCPl | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/26/91 |
| | | SPNPHL1 | 06/20/91 | | 06/27/91 |
| 14241.01 | P25-S007B | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14241.02 | P25-S007B | SPNTPH1 | 06/20/91 | | 06/25/91 |
| 14241.03 | P25-S007B | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAHl | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14242.01 | P25-S007C | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14242.02 | P25-S007C | SPNTPHl | 06/20/91 | | 06/25/91 |
| 14242.03 | P25-S007C | SPNMET1 | 06/20/91 | | 06/25/91 |

JOB NUMBER : 9101.473

*Ecology* and *Environment, Inc.*
**SAMPLE** TRACKING **REPORT**

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14242.03 | P25-S007C | SPNPbPl | 06/20/91 | | 06/24/91 |
| | | SPNPAEl | 06/20/91 | | 06/26/91 |
| | | SPNPHL1 | 06/20/91 | | 06/27/91 |
| 14243.01 | P25-S009A | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14243.02 | P25-S009A | SPNTPHl | 06/20/91 | | 06/25/91 |
| 14243.03 | P25-S009A | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14244.01 | P25-S009B | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14244.02 | P25-S009B | SPNTPHl | 06/20/91 | | 06/25/91 |
| 14244.03 | P25-S009B | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAEl | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14245.01 | P25-S009C | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14245.02 | P25-S009C | SPNTPH1 | 06/20/91 | | 06/26/91 |
| 14245.03 | P25-S009C | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14246.01 | P25-S009D | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14246.02 | P25-S009D | SPNTPHl | 06/20/91 | | 06/26/91 |
| 14246.03 | P25-S009D | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAEl | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14247.01 | P25-S012A | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14247.02 | P25-S012A | SPNTPHl | 06/20/91 | | 06/26/91 |
| 14247.03 | P25-S012A | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14248.01 | P25-S012B | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14248.02 | P25-S012B | SPNTPHl | 06/20/91 | | 06/26/91 |
| 14248.03 | P25-S012B | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/26/91 |
| | | SPNPHLl | 06/20/91 | | 06/27/91 |
| 14249.01 | P25-S012C | SPNPRGl | 06/20/91 | | 06/25/91 |
| 14249.02 | P25-S012C | SPNTPHl | 06/20/91 | | 06/26/91 |
| 14249.03 | P25-S012C | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAEl | 06/20/91 | | 06/26/91 |
| | | SPNPHL1 | 06/20/91 | | 06/27/91 |
| 14250.01 | P25-S015A | SPNPRGl | 06/19/91 | | 06/25/91 |
| 14250.02 | P25-S015A | SPNTPH1 | 06/19/91 | | 06/24/91 |

JOB NUMBER : 9101.473

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14250.03 | P25-S015A | SPNMET1 | 06/19/91 | | 06/25/91 |
| | | SPNP&P1 | 06/19/91 | | 06/24/91 |
| | | SPNPAH1 | 06/19/91 | | 06/26/91 |
| | | SPNPHL1 | 06/19/91 | | 06/27/91 |
| 14251.01 | P25-S015B | SPNPRG1 | 06/19/91 | | 06/25/91 |
| 14251.02 | P25-S015B | SPNTPH1 | 06/19/91 | | 06/24/91 |
| 14251.03 | P25-S015B | SPNMET1 | 06/19/91 | | 06/25/91 |
| | | SPNP&P1 | 06/19/91 | | 06/24/91 |
| | | SPNPAH1 | 06/19/91 | | 06/26/91 |
| | | SPNPHL1 | 06/19/91 | | 06/27/91 |
| 14252.01 | P25-S015C | SPNPRG1 | 06/19/91 | | 06/26/91 |
| 14252.02 | P25-S015C | SPNTPH1 | 06/19/91 | | 06/24/91 |
| 14252.03 | P25-S015C | SPNMET1 | 06/19/91 | | 06/25/91 |
| | | SPNP&P1 | 06/19/91 | | 06/24/91 |
| | | SPNPAH1 | 06/19/91 | | 06/26/91 |
| | | SPNPHL1 | 06/19/91 | | 06/27/91 |

JOB NUMBER : 9101.506

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SMPLB ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATB EXTRACTED | DATB ANALYZED |
|---|---|---|---|---|---|
| 14495.01 | P25-S016A | SPNPRGl | 06/25/91 | | 06/28/91 |
| 14495.02 | P25-S016A | SPNTPH1 | 06/25/91 | | 06/28/91 |
| 14495.03 | P25-S016A | SPNMET1 | 06/25/91 | | 06/28/91 |
| | | SPNP&P1 | 06/25/91 | | 07/01/91 |
| | | SPNPAH1 | 06/25/91 | | 07/03/91 |
| | | SPNPHL1 | 06/25/91 | | 07/04/91 |
| 14496.01 | P25-S016AD | SPNPRGl | 06/25/91 | | 06/28/91 |
| 14496.02 | P25-S016AD | SPNTPH1 | 06/25/91 | | 06/28/91 |
| 14496.03 | P25-S016AD | SPNMET1 | 06/25/91 | | 06/28/91 |
| | | SPNP&P1 | 06/25/91 | | 07/01/91 |
| | | SPNPAH1 | 06/25/91 | | 07/03/91 |
| | | SPNPHL1 | 06/25/91 | | 07/04/91 |
| 14497.01 | P25-S017A | SPNPRGl | 06/25/91 | | 06/28/91 |
| 14497.02 | P25-S017A | SPNTPH1 | 06/25/91 | | 06/28/91 |
| 14497.03 | P25-S017A | SPNMET1 | 06/25/91 | | 06/28/91 |
| | | SPNP&P1 | 06/25/91 | | 07/01/91 |
| | | SPNPAH1 | 06/25/91 | | 07/03/91 |
| | | SPNPHL1 | 06/25/91 | | 07/04/91 |
| 14498.01 | P25-S017AD | SPNPRGl | 06/25/91 | | 06/28/91 |
| 14498.02 | P25-S017AD | SPNTPH1 | 06/25/91 | | 06/28/91 |
| 14498.03 | P25-S017AD | SPNMET1 | 06/25/91 | | 06/28/91 |
| | | SPNP&P1 | 06/25/91 | | 07/01/91 |
| | | SPNPAH1 | 06/25/91 | | 07/03/91 |
| | | SPNPHLl | 06/25/91 | | 07/04/91 |

JOB NUMBER : 9101.741

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|---|
| 16332.01 | P25-S0001A (14225) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16333.01 | P25-S0001B (14226) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16334.01 | P25-S0001C (14227) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16335.01 | P25-S0002A (14013) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16336.01 | P25-S002B (14014) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16337.01 | P25-S002C (14015) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16338.01 | P25-S003A (14228) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16339.01 | P25-S003B (14229) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16340.01 | P25-S003C (14230) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16341.01 | P25-S004A (14231) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16342.01 | P25-S004B (14232) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16343.01 | P25-S004C (14233) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16344.01 | P25-S005A (14234) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16345.01 | P25-S005B (14235) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16346.01 | P25-S005C (14236) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16347.01 | P25-S006A (14237) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16348.01 | P25-S006B (14238) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16349.01 | P25-S006C (14239) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16350.01 | P25-S007A (14240) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16351.01 | P25-S007B (14241) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16352.01 | P25-S007C (14242) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16353.01 | P25-S008A (14022) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16354.01 | P25-S008B (14023) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16355.01 | P25-S008C (14024) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16356.01 | P25-S009A (14243) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16357.01 | P25-S009B (14244) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16358.01 | P25-S009C (14245) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16359.01 | P25-S009D (14246) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16360.01 | P25-S010A (14028) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16361.01 | P25-S010B (14029) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16362.01 | P25-S010C (14030) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16363.01 | P25-S011A (14025) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16364.01 | P25-S011B (14026) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16365.01 | P25-S011C (14027) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16366.01 | P25-S012A (14247) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16367.01 | P25-S012B (14248) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16368.01 | P25-S012C (14249) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16369.01 | P25-S013A (14019) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16370.01 | P25-S013B (14020) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16371.01 | P25-S013C (14021) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16372.01 | P25-S014A (14016) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16373.01 | P25-S014B (14017) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16374.01 | P25-S014C (14018) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16375.01 | P25-S015A (14250) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16376.01 | P25-S015B (14251) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16377.01 | P25-S015C (14252) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16378.01 | P25-S016A (14495) | SPH | 1 | 07/18/91 | | 07/22/91 |

JOB NUMBER : 9101.741

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|---|
| 16379.01 | P25-S016AD(14496) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16380.01 | P25-S017A (14497) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16381.01 | P25-S017AD(14498) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16382.01 | P27-S001A (14499) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16383.01 | P27-S001B (14500) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16384.01 | P27-S001C (14501) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16385.01 | P27-S001D (14502) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16386.01 | P27-S002A (14363) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16387.01 | P27-S002B (14364) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16388.01 | P27-S002C (14365) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16389.01 | P27-S002D (14366) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16390.01 | P27-S003A (14367) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16391.01 | P27-S003B (14368) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16392.01 | P27-S003C (14369) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16393.01 | P27-S003D (14370) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16394.01 | P27-S004A (14371) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16395.01 | P27-S004B (14372) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16396.01 | P27-S004C (14373) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16397.01 | P27-S004D (14374) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16398.01 | P27-S005A (14253) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16399.01 | P27-S005B (14254) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16400.01 | P27-S005C (14255) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16401.01 | P27-S005D (14256) | SPH | 1 | 07/18/91 | | 07/22/91 |
| 16402.01 | P27-S006A (14257) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16403.01 | P27-S006B (14258) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16404.01 | P27-S006C (14259) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16405.01 | P27-S006D (14260) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16406.01 | P27-S007A (14261) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16407.01 | P27-S007B (14262) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16408.01 | P27-S007C (14263) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16409.01 | P27-S008A (14503) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16410.01 | P27-S008B (14504) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16411.01 | P27-S008C (14505) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16412.01 | P27-S008D (14506) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16413.01 | P27-S009A (14375) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16414.01 | P27-S009B (14376) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16415.01 | P27-S009C (14377) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16416.01 | P27-S009D (14378) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16417.01 | P27-S010A (14379) | SPH | 1 | 07/18/91' | | 07/23/91 |
| 16418.01 | P27-S010B (14380) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16419.01 | P27-S010C (14381) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16420.01 | P27-S010D (14382) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16421.01 | P27-S011A (14383) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16422.01 | P27-S011B (14384) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16423.01 | P27-S011BD(14385) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16424.01 | P27-S011C (14386) | SPH | 1 | 07/18/91 | | 07/23/91 |
| 16425.01 | P27-S011D (14387) | SPH | 1 | 07/18/91 | | 07/23/91 |

ANALYTICAL REFERENCE SUMMARY 9101.437

| PARAMETER | METHOD |
|---|---|
| Title 22 Metals | Method 6010 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986. |
| Polynuclear Aromatic Hydrocarbons | Method 8310 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986. |
| Purgeable Aromatics | Method 8020 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986. |
| Pesticides | Method 8080 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986. |
| Total Phenols | Method 420 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986. |
| T. Petroleum Hydrocarbons | Method 8015 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, U.S. EPA, 1986. |

TEST CODE :SPH 1 JOB NUMBER :9101.741

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PH UNITS : S.U.
PARAMETER : pH

| SAMPLE ID | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| EE-91-16332 P25-S0001A (14225) | 6.7 | | NA |
| EE-91-16333 P25-S0001B (14226) | 7.1 | | NA |
| EE-91-16334 P25-S0001C (14227) | 6.2 | | NA |
| EE-91-16335 P25-S0002A (14013) | 7.7 | | NA |
| EE-91-16336 P25-S002B (14014) | 8.1 | | NA |
| EE-91-16337 P25-S002C (14015) | 7.9 | | NA |
| EE-91-16338 P25-S003A (14228) | 7.7 | | NA |
| EE-91-16339 P25-S003B (14229) | 6.9 | | NA |
| EE-91-16340 P25-S003C (14230) | 6.5 | | NA |
| EE-91-16341 P25-S004A (14231) | 4.7 | | NA |
| EE-91-16342 P25-S004B (14232) | 5.4 | | NA |
| EE-91-16343 P25-S004C (14233) | 6.2 | | NA |
| EE-91-16344 P25-S005A (14234) | 6.9 | | NA |

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

TEST CODE :SPH 1 JOB NUMBER :9101.741

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PH UNITS : S.U.
PARAMETER : pH

| SAMPLE ID | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| EE-91-16345 P25-S005B (14235) | 7.1 | | NA |
| EE-91-16346 P25-S005C (14236) | 6.7 | | NA |
| EE-91-16347 P25-S006A (14237) | 9.5 | | NA |
| EE-91-16348 P25-S006B (14238) | 8.6 | | NA |
| EE-91-16349 P25-S006C (14239) | 6.7 | | NA |
| EE-91-16350 P25-S007A (14240) | 6.4 | | NA |
| EE-91-16351 P25-S007B (14241) | 6.3 | | NA |
| EE-91-16352 P25-S007C (14242) | 3.8 | | NA |
| EE-91-16353 P25-S008A (14022) | 4.9 | | NA |
| EE-91-16354 P25-S008B (14023) | 4.9 | | NA |
| EE-91-16355 P25-S008C (14024) | 6.2 | | NA |
| EE-91-16356 P25-S009A (14243) | 8.1 | | NA |

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

TEST CODE :SPH 1 JOB NUMBER :9101.741

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PH UNITS : S.U.
PARAMETER : pH

| SAMPLE ID | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| EE-91-16357 P25-S009B (14244) | 7.5 | | NA |
| EE-91-16358 P25-S009C (14245) | 7.3 | | NA |
| EE-91-16359 P25-S009D (14246) | 6.3 | | NA |
| EE-91-16360 P25-S010A (14028) | 7.7 | | NA |
| EE-91-16361 P25-S010B (14029) | 6.8 | | NA |
| EE-91-16362 P25-S010C (14030) | 8.2 | | NA |
| EE-91-16363 P25-S011A (14025) | 7.2 | | NA |
| EE-91-16364 P25-S011B (14026) | 7.2 | | NA |
| EE-91-16365 P25-S011C (14027) | 7.5 | | NA |
| EE-91-16366 P25-S012A (14247) | 6.8 | | NA |
| EE-91-16367 P25-S012B (14248) | 6.5 | | NA |
| EE-91-16368 P25-S012C (14249) | 7.0 | | NA |
| EE-91-16369 P25-S013A (14019) | 5.7 | | NA |

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

TEST CODE : SPH 1 JOB NUMBER : 9101.741

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PH UNITS : S.U.
PARAMETER : pH

| SAMPLE ID | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| EE-91-16370 P25-S013B (14020) | 5.1 | | NA |
| EE-91-16371 P25-S013C (14021) | 6.9 | | NA |
| EE-91-16372 P25-S014A (14016) | 8.6 | | NA |
| EE-91-16373 P25-S014B (14017) | 8.5 | | NA |
| EE-91-16374 P25-S014C (14018) | 8.4 | | NA |
| EE-91-16375 P25-S015A (14250) | 7.5 | | NA |
| EE-91-16376 P25-S015B (14251) | 7.4 | | NA |
| EE-91-16377 P25-S015C (14252) | 7.6 | | NA |
| EE-91-16378 P25-S016A (14495) | 8.2 | | NA |
| EE-91-16379 P25-S016AD(14496) | 8.3 | | NA |
| EE-91-16380 P25-S017A (14497) | 7.9 | | NA |
| EE-91-16381 P25-S017AD(14498) | 7.8 | | NA |

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

9101.741

(S.U.)

| Parameter | E & E Laboratory No. 91- | Original Analysis | Replicate Analysis | Relative Percent Difference (RPD) |
|---|---|---|---|---|
| pH | 16341 | 4.7 | 4.7 | 0.20 |
| | 16351 | 6.3 | 6.4 | 0.50 |
| | 16361 | 6.8 | 6.8 | 0.15 |
| | 16371 | 6.9 | 6.9 | 0.0 |
| | 16381 | 7.8 | 7.9 | 0.20 |
| | 16391 | 8.0 | 8.0 | 0.30 |
| | 16401 | 8.5 | 8.5 | 0.10 |
| | 16411 | 6.7 | 6.6 | 0.40 |
| | 16421 | 7.5 | 7.5 | 0.40 |
| | 16431 | 5.0 | 5.0 | 0.60 |
| | 16441 | 7.5 | 7.5 | 0.50 |

ND = NOT DETECTED

NC = NOT CALCULABLE

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14225 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S001A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 1.1 | | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14226 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S001B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | ND | | 2.0 | MG/KG |
| had | 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

JOB NUMBER :9101.473

Ecology and Bnvironment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14227 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S001C

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14013 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S002A
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 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 |

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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14014 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S002B
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | 3.4 | | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14015 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S002C
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | 10 | | 2.0 | MG/KG |
| Lead | ND | | 4.0 | MG/KG |
| Cadmium | *0.55* | | *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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14228 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S003A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 1.2 | | 1.0 | MG/KG |
| Zinc | 3.1 | | 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

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JOB NUMBER :9101.473

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET VBIGET
SAMPLE ID LAB : BE-91-14229 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S003B

| PARAMETER | RESULTS | Q | QNT. LIHIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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 |

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14230 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S003C

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14231 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S004A

| PARAMETER | RESULTS | Q | QNT. LIHIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 1.1 | | 1.0 | MG/KG |
| Zinc | 4.0 | | 2.0 | MG/KG |
| Lead | 7.9 | | 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 = ESTIMATED VALUE B = *ALSO* PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14232 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S004B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14233 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S004C

| PARAMETER | RESULTS | Q | QNT. LIHIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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 LIHIT
NA = NOT APPLICABLE

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14234 MATRIX: SOLID
SAHPLB ID CLIENT: P25-S005A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 1.1 | | 1.0 | MG/KG |
| Zinc | 2.8 | | 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 = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14235 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S005B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 1.0 | | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EB-91-14236 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S005C

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Servicer Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14237 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S006A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 1.4 | | 1.0 | MG/KG |
| Zinc | 5.3 | | 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 STATBD DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14243 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S009A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 2.0 | | 1.0 | MG/KG |
| Zinc | 22 | | 2.0 | MG/KG |
| Lead | ND | | 4.0 | MG/KG |
| Cadmium | ND | | 0.50 | MG/KG |
| Nickel | ND | | 4.0 | MG/KG |
| Copper | 3.3 | | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14244 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S009B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | 4.6 | | 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 BELOV STATED DETECTION LIMIT
NA = NOT APPLICABLE

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : *EE-91-14023* MATRIX: SOLID
SAMPLE ID CLIENT: P25-S008B
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | 2.9 | | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14024 MATRIX: SOLID
SAHPLE ID CLIENT: P25-S008C
SAHPLE LOCATION :

| 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14242 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S007C

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14022 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S008A
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 2.1 | | 1.0 | MG/KG |
| Zinc | 5.4 | | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14240 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S007A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14241 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S007B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | ND | | 2.0 | MG/KG |
| Lead | 8.5 | | 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 LIHIT
NA = NOT APPLICABLE

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14238 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S006B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Canter

CLIBNT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14239 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S006C

| PARAMETER | RESULTS | Q | QNT. LIHIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.506

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 PRECISION
RBSULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101.437

(mg/kg)

| Parameter | E 6 E Laboratory No. 91-14023 | Original Analysis | Replicate Analysis | Relative Percent Difference (RPD) |
|---|---|---|---|---|
| Arsenic | | ND | ND | NC |
| Cadmium | | ND | ND | NC |
| Chromium | | ND | ND | NC |
| Copper | | ND | ND | NC |
| Lead | | ND | ND | NC |
| Nickel | | ND | ND | NC |
| Silver | | ND | ND | NC |
| Zinc | | 2.9 | 3.1 | 6.4 |

ND = NOT DETECTED

NC = NOT CALCULABLE

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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID
SAMPLE LOCATION :

| 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : METHOD BLANK MATRIX: SOLID

| PARAMETER | RESULTS | Q | ONT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14245 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S009C

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14246 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S009D

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14028 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S010A
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 64 | | 1.0 | MG/KG |
| Zinc | 50 | | 2.0 | MG/KG |
| Lead | 160 | | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14029 MATRIX: SOLID
SAHPLE ID CLIENT: P25-S010B
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 4.5 | | 1.0 | MG/KG |
| Zinc | 8.4 | | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14030 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S010C
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 2.8 | | 1.0 | MG/KG |
| Zinc | 7.7 | | 2.0 | MG/KG |
| Lead | 9.6 | | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SMPLE ID LAB : EE-91-14025 MATRIX: SOLID
SMPLE ID CLIENT: P25-S011A
SMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 1.6 | | 1.0 | MG/KG |
| Zinc | 10 | | 2.0 | MG/KG |
| Lead | 6.8 | | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : *EB-91-14026* MATRIX: SOLID
SAMPLE ID CLIENT: P25-S011B
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | 3.2 | | 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 |

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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : 38-91-14027 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S011C
SAMPLE LOCATION :

| 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 = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14247 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S012A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 1.6 | | 1.0 | MG/KG |
| Zinc | 10 | | 2.0 | MG/KG |
| Lead | 15 | | 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

JOB NUMBER :9101.473

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14248 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S012B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14249 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S012C

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14019 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S013A
SAMPLE LOCATION :

| 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14020 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S013B
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14021 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S013C
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIHIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | 8.3 | | 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 LIHIT

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14016 MATRIX: SOLID
SAMPLE ID CLIENT: P25-SO14A
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | 3.4 | | 2.0 | MG/KG |
| Lead | 5.6 | | 4.0 | MG/KG |
| Cadmium | 0.56 | | 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

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14017 MATRIX: SOLID
SAMPLE ID CLIENT: P25-SO14B
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | ND | | 1.0 | MG/KG |
| Zinc | 3.2 | | 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 LIHIT

METALS SECTION JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14018 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S014C
SAMPLE LOCATION :

| 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 = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EB-91-14250 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S015A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | MG/KG |
| Chromium | 1.2 | | 1.0 | MG/KG |
| Zinc | 2.2 | | 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

JOB NUMBER :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14497 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S017A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 4.7 | | 1.0 | MG/KG |
| Zinc | 310 | | 2.0 | MG/KG |
| Lead | 24 | | 4.0 | MG/KG |
| Cadmium | 0.92 | | 0.50 | MG/KG |
| Nickel | ND | | 4.0 | MG/KG |
| Copper | 7.0 | | 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

JOB NUMBER :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14498 MTRIX: SOLID
SAMPLE ID CLIENT: P25-S017AD

| PARAMETER | RESULTS | Q | QNT. LIHIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 4.4 | | 1.0 | MG/KG |
| Zinc | 300 | | 2.0 | MG/KG |
| Lead | 38 | | 4.0 | MG/KG |
| Cadmium | 1.4 | | 0.50 | MG/KG |
| Nickel | ND | | 4.0 | MG/KG |
| Copper | 9.3 | | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14251 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S015B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14252 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S015C

| PARAMETER | RESULTS | Q | ONT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.9 | 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

JOB NUMBER :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14495 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S016A

| PARAMETER | RESULTS | Q | QNT. LIHIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 2.7 | | 1.0 | MG/KG |
| Zinc | 2.0 | | 2.0 | MG/KG |
| Lead | 9.1 | | 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

JOB NUMBER :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14496 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S016AD

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 6.0 | MG/KG |
| Chromium | 3.7 | | 1.0 | MG/KG |
| Zinc | 2.0 | | 2.0 | MG/KG |
| Lead | 7.5 | | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14237 MATRIX: SOLID
SAMPLE ID CLIENT: P25-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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14238 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S006B

| 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

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

9101.473

(mg/kg)

| Parameter | E & E Laboratory No. 91-14244 | Original Analysis | Replicate Analysis | Relative Percent Difference (RPD) |
|---|---|---|---|---|
| Arsenic | | ND | ND | NC |
| Chromium | | ND | 1.2 | NC |
| Zinc | | 4.6 | 5.0 | 8.3 |
| 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.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.437

(mg/kg)

| Parameter | E & E Laboratory No. 91-14023 | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Arsenic | | ND | 200 | 170 | 87 |
| Cadmium | | ND | 5.0 | 5.1 | 102 |
| Chromium | | ND | 20 | 20 | 102 |
| Copper | | ND | 25 | 23 | 92 |
| Lead | | ND | 50 | 51 | 102 |
| Nickel | | ND | 50 | 47 | 94 |
| Silver | | ND | 5.0 | 4.5 | 90 |
| Zinc | | 2.9 | 50 | 52 | 99 |

ND = NOT DETECTED

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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.473

(mg/kg)

| Parameter | E & E Laboratory No. 91-14244 | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Arsenic | | ND | 200 | 200 | 99 |
| Chromium | | ND | 20 | 21 | 106 |
| Zinc | | 4.6 | 50 | 53 | 96 |
| Lead | | ND | 50 | 54 | 108 |
| Cadmium | | ND | 5.0 | 5.1 | 102 |
| Nickel | | ND | 50 | 51 | 101 |
| Copper | | ND | 25 | 26 | 102 |
| Silver | | ND | 5.0 | 5.4 | 108 |

ND = NOT DETECTED

NC = NOT CALCULABLE

** = RECOVERY NOT DETERHINED 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 ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.473

(mg/kg)

| Parameter | E & E Laboratory No. 91-14244 | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Arsenic | | ND | 200 | 200 | 99 |
| Chromium | | ND | 20 | 21 | ~~100~~ 106 |
| Zinc | | 4.6 | 50 | 53 | 96 |
| Lead | | ND | 50 | 54 | 108 |
| Cadmium | | ND | 5.0 | 5.1 | 102 |
| Nickel | | ND | 50 | 51 | 101 |
| Copper | | ND | 25 | 26 | 102 |
| Silver | | ND | 5.0 | 5.4 | ~~103~~ 108 |

ND = NOT DETECTED

NC = NOT CALCULABLE

** = RECOVERY NOT DETERMINED BECAUSE SAMPLE MOUNT IS FOUR OR HORE TIMES GREATER THAN SPIKE MOUNT.

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14225 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S001A

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14226 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S001B

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

QUALIFIERS: C = COMMENT NO = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14227 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S001C

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14228 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S003A

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

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAXPLE ID LAB :EE-91-14229 MATRIX: SOLID
SAXPLE ID CLIENT: P25-S003B

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | 5.2 | | 5.0 | MG/KG |

QUALIFIERS: C = COMHENT NO = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT
NA = NOT APPLICABLE

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14230 MATRIX: SOLID
SMIPLE ID CLIENT: P25-S003C

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14231 MATRIX: SOLID
SAXPLE ID CLIENT: P25-S004A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | ND | | 5.0 | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14232 MATRIX: SOLID
SAHPLE ID CLIENT: P25-S004B

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14233 MATRIX: SOLID
SAHPLE ID CLIENT: P25-S004C

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | 5.7 | | 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14234 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S005A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | 56 | | 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14235 MATRIX: SOLID
SAHPLE ID CLIENT: P25-S005B

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14236 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S005C

| 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 :9101.473

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

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14245 MATRIX: SOLID
SAMPLE ID CLIENT: P25-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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14246 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S009D

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
SAMPLE ID LAB :EE-91-14243 MATRIX: SOLID
SAMPLE ID CLIENT: P25-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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :BE-91-14244 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S009B

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14241 MATRIX: SOLID
SAMPLE ID CLIENT: P25-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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :BE-91-14242 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S007C

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

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14239 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S006C

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | 95 | | 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 :9101.473

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14240 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S007A

| 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 DBTECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14247 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S012A

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14248 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S012B

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14251 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S015B

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14252 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S015C

| 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 :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAHPLE ID LAB :EE-91-14495 MATRIX: SOLID
SAHPLE ID CLIENT: P25-S016A

| PARAMETER | RESULTS | Q | QNT. LIHIT | UNITS |
|---|---|---|---|---|
| TRPH | 290 | | 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 :9101.506

Ecology and Bnvironmnt, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14496 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S016AD

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | 290 | | 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 :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14497 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S017A

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | 42 | | 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 APPLICABLB

JOB NUMBER :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14498 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S017AD

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | 28 | | 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14249 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S012C

| 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 :9101.473

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

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14250 MATRIX: SOLID
SAMPLE ID CLIENT: P25-S015A

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

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGAELES- GC UNITS. : UG/KG
SAMPLE ID LAB : EE-91-14234 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S005A

| 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 :9101.473

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-91-14235 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S005B

| 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 |
| Tetrachlorocthene | ND | | 1000 |
| chlorobenzene | ND | | 1000 |

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.473

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-91-14232 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 |

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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 :9101.473

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-91-14233 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004C

| 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 :9101.473

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-91-14230 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003C

| 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 :9101.473

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
SAHPLE ID LAB : EE-91-14231 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S004A

| 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 :9101.473

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-91-14228 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003A

| PARAMETER | RESULTS | Q | ONT. 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 |

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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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14229 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003B

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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 |
| Xethylene 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

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14014 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002B
SAMPLE LOCATION :

| 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 = COMNENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14015 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002C
SAMPLE LOCATION :

| 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 :9101.473

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-91-14227 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001C

| 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 = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAHE : PNC PURGEABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14013 MATRIX : SOLID
SAMPLE ID CLIENT: P25-SO02A
SAMPLE LOCATION :

| 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 = BSTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.473

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
SAHPLE ID LAB : EE-91-14225 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001A

| PARAMETER | RESULTS | Q | ONT. 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 |

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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 :9101.473

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-91-14226 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001B

| 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 |
| Trichloroetheme | ND | | 1000 |
| Tetrachloroethene | ND | | 1000 |
| chlorobenzene | ND | | 1000 |

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

TEST CODE : SPNTPH1 JOB NUMBER : 9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC TRPH UNITS : MG/KG
PARAMETER : TRPH

| SAMPLE ID | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| EE-91-14013 P25-S002A | ND | | 5.0 |
| EE-91-14014 P25-S002B | ND | | 5.0 |
| EE-91-14015 P25-S002C | ND | | 5.0 |
| EE-91-14016 P25-S014A | 13 | | 5.0 |
| EE-91-14017 P25-S014B | ND | | 5.0 |
| EE-91-14018 P25-S014C | ND | | 5.0 |
| EE-91-14019 P25-S013A | 8.4 | | 5.0 |
| EE-91-14020 P25-S013B | 10 | | 5.0 |
| EE-91-14021 P25-S013C | 10 | | 5.0 |
| EE-91-14022 P25-S008A | ND | | 5.0 |
| EE-91-14023 P25-S008B | 20 | | 5.0 |
| EE-91-14024 P25-S008C | 7.1 | | 5.0 |
| EE-91-14025 P25-S011A | ND | | 5.0 |

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

TEST CODE : SPNTPH1 **JOB NUMBER :9101.437**

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
**TEST** NAME : PNC TRPH UNITS : **MG/KG**
PARAMETER : TRPE

| SAMPLE ID | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| **EE-91-14026** | | | |
| **P25-S011B** | **ND** | | 5.0 |
| **EE-91-14027** | | | |
| **P25-S011C** | 7.9 | | 5.0 |
| **EE-91-14028** | | | |
| **P25-S010A** | 28 | | 5.0 |
| **EE-91-14029** | | | |
| **P25-S010B** | 5.8 | | 5.0 |
| EE-91-14030 | | | |
| P25-S010C | 11 | | **5.0** |

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

9101.437

(mg/kg)

| Parameter | E & E Laboratory No. 91- | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| T. RECOVERABLE PETROLEUM HYDROCARBONS | | | | | |
| | 14030 | 11 | 130 | 110 | 76 |

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

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QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.506

(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 | 93 |

ND = NOT DETECTED

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

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

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

9101.506

(mg/kg)

| Parameter | E & E Laboratory No. 91- | Original Analysis | Replicate Analysis | Relative Perctnt Diffarenct (RPD) |
|---|---|---|---|---|
| T. Recoverable Petroleum Hydrocarbons | | | | |
| | Batch QC | 63 | 71 | 11 |

ND = NOT DETECTED

NC = NOT CALCULABLE

NOTE: ALTHOUGH RESULTS *ARE* REPORTED AS ROUNDED VALUES, RPD's ARE CALCULATED DIRECTLY PROM TEE RAW DATA.

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.473

(mg/kg)

| Parameter | E & E Laboratory No. 91- | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| TRPH | 14233 | 5.7 | 130 | 100 | 73 |
| | Batch QC | ND | 120 | 120 | 95 |
| | Batch QC | ND | 130 | 120 | 91.4 |
| | Batch QC | ND | 130 | 120 | 90.8 |

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BECAUSE SMPLE MOUNT 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.

OUALITY CONTROL FOR PRBCISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101.473

(mg/kg)

| Parameter | E & E Laboratory No. 91- | Original Analysis | Replicate Analysis | Relative Percent Difference (RPD) |
|---|---|---|---|---|
| TRPH | 14232 | ND | ND | NC |
| | 14243 | ND | ND | NC |
| | 14249 | 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

9101.437

(mg/kg)

| Parameter | E & E Laboratory No. 91- | Original Analysis | Replicate Analysis' | Relative Percent Difference (RPD) |
|---|---|---|---|---|
| T. RECOVERABLE PETROLEUM HYDROCARBONS | 14025 | 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.

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14016 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S014A
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14017 MATRIX : SOLID
SAMPLE ID CLIENT: P25-SO14B
SAMPLE LOCATION :

| 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 - dichlorocthene | 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14020 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013B
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14021 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013C
SAHPLE LOCATION :

| 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 :9101.473

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-91-14249 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012C

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14019 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013A
SAMPLE LOCATION :

| 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 |
| 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 CODE :SPNPRG1 JOB NUMBER :9101.473

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-91-14247 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012A

| 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 |

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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 :9101.473

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-91-14248 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012B

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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 |
| Tetrachloroethcne | 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 :9101.473

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-91-14236 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S005C

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14237 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S006A

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Benzene | ND | | 1000 |
| Toluene | ND | | 1000 |
| Ethylbcnzcne | ND | | 1000 |
| Total Xylenes | ND | | 1000 |
| 1,2 - Dichlorobenzene | ND | | 1000 |
| 1,3 - Dichlorobenzene | ND | | 1000 |
| 1,4 - Dichlorobenzene | ND | | 1000 |
| 1,1 - dichlorocthene | 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 |
| Trichloroethcne | 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 :9101.47

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 :
SAMPLE ID LAB : EE-91-14238 MATRIX :
SAMPLE ID CLIENT: P25-S006B

| PARAMETER | RESULTS | O | ONT |
|---|---|---|---|
| Benzene | ND | | 1 |
| Toluene | ND | | 1 |
| Ethylbenzene | ND | | 1 |
| Total Xylenes | ND | | 1 |
| 1,2 - Dichlorobenzene | ND | | 1 |
| 1,3 - Dichlorobenzene | ND | | 1 |
| 1,4 - Dichlorobenzene | ND | | 1 |
| 1,1 - dichloroethene | ND | | 1 |
| Methylene Chloride | ND | | 1 |
| Trans-1,2, - Dichloroethene | ND | | 1 |
| 1,1 - dichloroethane | ND | | i |
| 1,1,1 - Trichloroethane | ND | | 1 |
| 1,2 - Dichloroethane | ND | | 1 |
| Trichloroethene | ND | | 1 |
| Tetrachloroethene | ND | | |
| chlorobenzene | ND | | |

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

TEST CODE : SPNPRG1 JOB NUMBER : 9101.473

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 : U(
SAHPLE ID LAB : EE-91-14239 MATRIX : S(
SAMPLE ID CLIENT: P25-S006C

| PARAMETER | RESULTS | Q | QNT. |
|---|---|---|---|
| Benzene | ND | | 10 |
| Toluene | ND | | 10 |
| Ethylbenzene | ND | | 10 |
| Total Xylenes | ND | | 10 |
| 1,2 - Dichlorobenzene | ND | | 10 |
| 1,3 - Dichlorobenzene | ND | | 1C |
| 1,4 - Dichlorobenzene | ND | | 1C |
| 1.1 - dichloroethene | ND | | 1C |
| Methylene Chloride | ND | | 1( |
| Trans-1,2, - Dichloroethene | ND | | 1( |
| 1,1 - dichloroethane | ND | | 1( |
| 1,1,1 - Trichloroethane | ND | | 1( |
| 1,2 - Dichloroethane | ND | | 1( |
| Trichloroethene | ND | | 1( |
| Tetrachloroethene | ND | | 1( |
| chlorobenzene | ND | | 1( |

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14240 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007A

| 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 - Trichlorosthane | 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14241 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007B

| 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 :9101.473

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-91-14242 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007C

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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, - Dichlorocthene | ND | | 1000 |
| 1,1 - dichloroethane | ND | | 1000 |
| 1,1,1 - Trichloroethane | ND | | 1000 |
| 1,2 - Dichloroethane | ND | | 1000 |
| Trichloroethene | ND | | 1000 |
| Tatrachloroethene | ND | | 1000 |
| chlorobenzene | ND | | 1000 |

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14022 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008A
SAMPLE LOCATION :

| 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 - dichlorocthene | 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
3 = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14023 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008B
SAMPLE LOCATION :

| 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 - dlchloroethene | 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

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14024 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008C
SAMPLE LOCATION :

| 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 |
| Tetrachloroethenc | ND | | 1000 |
| chlorobenzene | ND | | 1000 |

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.473

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-91-14243 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009A

| 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 |

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.473

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-91-14244 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 - Dichlorocthane | 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

TEST CODE :SPNPRG1 JOB NUMBER :9101.473

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-91-14245 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009C

| 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 |

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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 :9101.473

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 : EB-91-14246 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 - Trichlorocthane | ND | | 1000 |
| 1,2 - Dichloroethane | ND | | 1000 |
| Trichloroethene | ND | | 1000 |
| Tctrachloroethene | 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14026 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S011B
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14027 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S011C
SAMPLE LOCATION :

| 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 BELOV STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14030 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S010C
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14025 MATRIX : SOLID
SAHPLE ID CLIENT: P25-SO11A
SAMPLE LOCATION :

| 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 |
| Tetrachloroethenc | ND | | 1000 |
| chlorobenzene | ND | | 1000 |

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14028 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S010A
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14029 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S010B
SAHPLE LOCATION :

| 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 :SPNPAH1 JOB NUMBER :9101.473

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-91-14233 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004C

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14234 HATRIX : SOLID
SAMPLE ID CLIENT: P25-S005A

| 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 : 9101.473

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
SAHPLE ID LAB : EE-91-14235 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S005B

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.473

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-91-14236 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S005C

| 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 :9101.473

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-91-14237 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S006A

| 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 : 9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14238 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S006B

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCX 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14231 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004A

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WIGHT
TEST NAME : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14232 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004B

| 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 :9101.473

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-91-14229 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003B

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET VEIGET
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14230 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003C

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

QUALIFIERS: C = COMMENT NO = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9101.437

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 : EE-91-14015 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002C
SAMPLE LOCATION :

| 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 : 9101.473

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-91-14228 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003A

| 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 :9101.437

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-91-14013 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002A
SAMPLE LOCATION :

| 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 : 9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14014 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002B
SAMPLE LOCATION :

| 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 :9101.473

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-91-14226 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001B

| 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 :9101.473

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

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : 38-91-14227 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S001C

| 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 BELOV STATED DETECTION LIMIT

## QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.506

| Compound | E & E Laboratory No. 91- | Parcent Recovery |
|---|---|---|
| Trifluorotoluene | 14495 | 112 |
| | 14496 | 119 |
| | 14497 | 120 |
| | 14498 | 125 |
| | Method Blank | 100 |
| 1,4-Dichlorobutane | 14495 | 89 |
| | 14496 | 99 |
| | 14497 | 91 |
| | 14498 | 93 |
| | Method Blank | 100 |

TEST CODE : SPNPAH1 JOB NUMBER : 9101.473

**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-91-14225 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001A

| 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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.473

| Compound | E & E Laboratory No. 91- | Percent Recovery |
|---|---|---|
| Trifluorotoluene | 14240 | 104 |
| | 14241 | 105 |
| | 14242 | 112 |
| | 14243 | 105 |
| | 14244 | 103 |
| | 14245 | 108 |
| | 14246 | 102 |
| | 14247 | 116 |
| | 14248 | 74 |
| | 14249 | 113 |
| | 14250 | 114 |
| | 14251 | 115 |
| | 14252 | 105 |
| | Method Blank #1 | 100 |
| | Method Blank #2 | 100 |
| 1,4-dichlorobutane | 14240 | 114 |
| | 14241 | 118 |
| | 14242 | 107 |
| | 14243 | 116 |
| | 14244 | 107 |
| | 14245 | 112 |
| | 14246 | 93 |
| | 14247 | 103 |
| | 14248 | 102 |
| | 14249 | 88 |
| | 14250 | 87 |
| | 14251 | 93 |
| | 14252 | 85 |
| | Method Blank #1 | 100 |
| | Method Blank #2 | 100 |

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

9101.506

(ug/kg)

| Parameter | B & B Laboratory No. 91- Blank Spike | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Benzene | | ND | 20 | 20 | 100 |
| Toluene | | ND | 20 | 18 | 90 |
| Bthyl Benzene | | ND | 20 | 18 | 90 |
| 1,2-Dichlorobenzene | | ND | 20 | 16 | 80 |
| 1,3-Dichlorobnezene | | ND | 20 | 18 | 90 |
| 1.4-Dichlorobenzene | | ND | 20 | 19 | 95 |
| 1,1-Dichloroethene | | ND | 20 | 22 | 110 |
| Hethylene 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 |
| Trichloroethene | | ND | 20 | 19 | 95 |
| Tetrachloroethene | | ND | 20 | 18 | 90 |

ND = NOT DETECTED

TEST CODE :SPNPAH1 JOB NUMBER :9101.473

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-91-14239 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 : 9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14240 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007A

| 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 :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14018 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S014C
SAMPLE LOCATION :

| 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 = COMHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.473

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-91-14250 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015A

| PARAMETER | RESULTS | Q | ONT. LIMIT |
|---|---|---|---|
| Benzene | ND | | 1000 |
| Toluene | ND | | 1000 |
| Ethylbenzene | ND | | 1000 |
| Total Xylenes | ND | | 1000 |
| 1,2 - Dichlorobenzene | ND | | 1000 |
| 1,3 - Dichlorobcnxcnc | ND | | 1000 |
| 1,4 - Dichlorobenzene | ND | | 1000 |
| 1,1 - dichlorocthene | 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 |
| Tetrachlorocthcne | 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 :9101.473

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-91-14251 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015B

| 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 |

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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 :9101.473

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 : EB-91-14252 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015C

| 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 - dichloroethcne | 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 - Dichlorocthane | 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 :9101.506

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-91-14495 MATRIX : SOLID
SAMPLE ID CLIENT: P25-SO16A

| 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 :9101.506

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-91-14496 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S016AD

| 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 PRBSENT IN BLANK
L = PRESENT BELOW STATBD DETECTION LIXIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.506

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
SAMPLE ID LAB : EE-91-14497 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S017A

| 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

TBST CODE :SPNPRG1 JOB NUMBER :9101.506

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 : BE-91-14498 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S017AD

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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

TEST CODE :SPNPRG1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 1 MATRIX : SOLID
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PURGEABLES- GC UNITS : UG/KG
SAHPLE ID LAB : METHOD BLANK 2 MATRIX : SOLID
SAHPLE LOCATION :

| 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 |

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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 :9101.473

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 - 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 |

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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 :9101.473

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 #2 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 - dichloroethene | ND | | 1000 |
| Methylene Chloride | ND | | 1000 |
| Trans-1,2, - Dichloroethene | ND | | 1000 |
| 1,1 - dichloroethane | ND | | 1000 |
| 1,1,1 - Trichlorocthane | ND | | 1000 |
| 1,2 - Dichlorocthane | 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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.437

| Compound | E & E Laboratory No. 91- | Percent Recovery |
|---|---|---|
| Trifluorotoluene | 14013 | 120 |
| | 14014 | 117 |
| | 14015 | 121 |
| | 14016 | 111 |
| | 14017 | 127 |
| | 14018 | 116 |
| | 14019 | 117 |
| | 14020 | 115 |
| | 14021 | 108 |
| | 14022 | 115 |
| | 14023 | 110 |
| | 14024 | 107 |
| | 14025 | 107 |
| | 14026 | 112 |
| | 14027 | 107 |
| | 14028 | 106 |
| | 14029 | 86 |
| | 14030 | 102 |
| | Method Blank 1 | 99 |
| | Method Blank 2 | 100 |

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.473

| Compound | E & E Laboratory No. 91- | Percent Recovery |
|---|---|---|
| Trifluorotoluene | 14225 | 136 |
| | 14226 | 142 |
| | 14227 | 123 |
| | 14228 | 145 |
| | 14229 | 126 |
| | 14230 | 121 |
| | 14231 | 125 |
| | 14232 | 127 |
| | 14233 | 114 |
| | 14234 | 142 |
| | 14235 | 138 |
| | 14236 | 136 |
| | 14237 | 128 |
| | 14238 | 118 |
| | 14239 | 115 |
| 1,4-dichlorobutane | 14225 | 97 |
| | 14226 | 97 |
| | 14227 | 88 |
| | 14228 | 100 |
| | 14229 | 105 |
| | 14230 | 99 |
| | 14231 | 88 |
| | 14232 | 91 |
| | 14233 | 87 |
| | 14234 | 77 |
| | 14235 | 71 |
| | 14236 | 72 |
| | 14237 | 70 |
| | 14238 | 112 |
| | 14239 | 118 |

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (HSD)
(Sample # 14234)

9101.473

(ug/kg)

| Parameter | Original Value | Amount Added | | Amount Determined | | Percent Recovery | | |
|---|---|---|---|---|---|---|---|---|
| | | MS | MSD | MS | HSD | MS | MSD | RPD |
| Benzene | ND | 2500 | 2500 | 2400 | 2400 | 96 | 96 | 0 |
| Toluene | ND | 2500 | 2500 | 2700 | 2700 | 108 | 108 | 0 |
| Ethyl Benzene | ND | 2500 | 2500 | 2300 | 2300 | 92 | 92 | 0 |
| 1,2-Dichlorobenzene | ND | 2500 | 2500 | 2200 | 2300 | 88 | 92 | 4.4 |
| 1.3-Dichlorobenzene | ND | 2500 | 2500 | 2200 | 2300 | 08 | 92 | 4.4 |
| 1,4-Dichlorobenzene | ND | 2500 | 2500 | 2300 | 2300 | 92 | 92 | 0 |
| 1,1-Dichloroethene | ND | 2500 | 2500 | 1100 | 1300 | 44 | 52 | 17 |
| Methylene Chloride | ND | 2500 | 2500 | 3800 | 4300 | 152 | 172 | 12 |
| Trans-1,2-Dichloroethene | ND | 2500 | 2500 | 3800 | 4300 | 152 | 172 | 12 |
| 1,1,1-Trichloroethane | ND | 2500 | 2500 | 3200 | 3200 | 128 | 128 | 0 |
| 1,2-Dichloroethane | ND | 2500 | 2500 | 3100 | 3300 | 124 | 132 | 6.2 |
| Trichloroethene | ND | 2500 | 2500 | 2800 | 2900 | 112 | 116 | 3.5 |
| Tetrachloroethene | ND | 2500 | 2500 | 2700 | 3000 | 108 | 120 | 11 |

These recoveries and RPDs are within E & E, Inc. limits.

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY *AND* PRECISION:
PERCENT RECOVERY *AND* RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (HS) *AND* MATRIX SPIKE DUPLICATE (HSD)
(Sample # 14247)

9101.473

(ug/kg)

| Parameter | Original Value | Amount Added | | Amount Determined | | Percent Recovery | | |
|---|---|---|---|---|---|---|---|---|
| | | MS | MSD | HS | HSD | MS | MSD | RPD |
| Benzene | ND | 2500 | 2500 | 2100 | 2300 | 84 | 92 | 9.1 |
| Toluene | ND | 2500 | 2500 | 2200 | 2400 | 88 | 96 | 8.7 |
| Ethyl Benzene | ND | 2500 | 2500 | 1900 | 2100 | 76 | 84 | 10 |
| 1,2-Dichlorobenzene | ND | 2500 | 2500 | 1800 | 2100 | 72 | 84 | 15 |
| 1,3-Dichlorobenzene | ND | 2500 | 2500 | 1800 | 2000 | 72 | 80 | 11 |
| 1.4-Dichlorobenzene | ND | 2500 | 2500 | 1800 | 2100 | 72 | 84 | 15 |
| 1,1-Dichloroethene | ND | 2500 | 2500 | 1000 | 1300 | 40 | 52 | 26 |
| Hcthylene Chloride | ND | 2500 | 2500 | 2000 | 2200 | 80 | 88 | 9.5 |
| Trans-1,2-Dichloroethene | ND | 2500 | 2500 | 2000 | 2200 | 80 | 88 | 9.5 |
| 1,l-Dichloroethane | ND | 2500 | 2500 | 2800 | 3200 | 112 | 128 | 13 |
| 1,1,1-Trichloroethane | ND | 2500 | 2500 | 2600 | 2900 | 104 | 116 | 11 |
| 1,2-Dichloroethane | ND | 2500 | 2500 | 3000 | 3200 | 120 | 128 | 6.5 |
| Trichloroethene | ND | 2500 | 2500 | 2400 | 2800 | 96 | 112 | 15 |
| Tctrachloroethene | ND | 2500 | 2500 | 2400 | 2500 | 96 | 100 | 4.1 |

These recoveries and RPDs are vithin E & E, Inc. limits.

ND = NOT DETECTED

TEST CODE :SPNPRG1 JOB NUMBER :9101.506

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 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 - 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 = COMHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY *AND* RELATIVB PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) AND HATRIX SPIKE DUPLICATE (HSD)
(Sample # 14013)

9101.437

(ug/kg)

| Parameter | Original Value | Amount Added HS | Amount Added MSD | Amount Determined MS | Amount Determined HSD | Percent Recovery MS | Percent Recovery MSD | RPD |
|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 2500 | 2500 | 2200 | 2300 | 88 | 92 | 4.4 |
| Toluene | ND | 2500 | 2500 | 2300 | 2500 | 92 | 100 | 8.3 |
| Bthyl Benzene | ND | 2500 | 2500 | 2100 | 2200 | 84 | 88 | 4.7 |
| 1,2-Dichlorobenzene | ND | 5000 | 5000 | 4000 | 4200 | 80 | 84 | 4.9 |
| 1,3-Dichlorobenzene | ND | 5000 | 5000 | 4000 | 4100 | 80 | 82 | 2.5 |
| 1,4-Dichlorobenzene | ND | 5000 | 5000 | 4100 | 4200 | 82 | 84 | 2.4 |
| 1,1-Dichloroethene | ND | 2500 | 2500 | 1400 | 1300 | 56 | 52 | 7.4 |
| Methylene Chloride | ND | 2500 | 2500 | 2100 | 2300 | 84 | 92 | 9.1 |
| Trans-1,2-Dichloroethene | ND | 2500 | 2500 | 2100 | 2300 | 84 | 92 | 9.1 |
| 1,1-Dichloroethane | ND | 2500 | 2500 | 2500 | 2700 | 100 | 108 | 7.7 |
| 1,1,1-Trichloroethane | ND | 2500 | 2500 | 2500 | 2600 | 100 | 104 | 3.9 |
| 1,2-Dichloroethane | ND | 2500 | 2500 | 2400 | 2500 | 96 | 100 | 4.1 |
| Trichloroethene | ND | 2500 | 2500 | 2300 | 2500 | 92 | 100 | 8.3 |
| Tetrachloroethane | ND | 2500 | 2500 | 2200 | 2300 | 88 | 92 | 4.4 |

These recoveries and RPDs are within E & B, Inc. limits.

ND = NOT DETECTED

TEST CODE :SPNPAH1 JOB NUMBER :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14496 HATRIX : SOLID
SAMPLE ID CLIENT: P25-S016AD

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAHB : PNC PAH - LC UNITS : UG/KG
SAHPLB ID LAB : BB-91-14497 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S017A

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14252 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015C

| 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 :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14495 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S016A

| 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 :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14498 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S017AD

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TBST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 1 598/86 MATRIX : SOLID
SAMPLE LOCATION :

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

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QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK

TEST CODE :SPNPAH1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 4 598-87 MATRIX : SOLID
SAMPLE LOCATION :

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK #1 MATRIX : SOLID

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 2 598/86 MATRIX : SOLID
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 3 598/87 MATRIX : SOLID
SAMPLE LOCATION :

| 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 :9101.473

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 : METHOD 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

TEST CODE :SPNPAH1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.506

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

| 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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.437

(ug)

| Parameter | E & E Laboratory No. 91- | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Benzo(a)pyrene | | | | | |
| | Blank #1 | ND | 50 | 54 | 108 |
| | Blank #2 | ND | 50 | 51 | 102 |

ND = NOT DETECTED

TEST CODE : SPNPAH1 JOB NUMBER : 9101.473

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-91-14241 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S0078

| 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 :9101.473

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-91-14242 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14022 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S008A
SAHPLE LOCATION :

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

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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 :9101.437

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-91-14023 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008B
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| 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

TEST CODE :SPNPAH1 JOB NUMBER :9101.437

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-91-14024 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008C
SAMPLE LOCATION :

| 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 : 9101.473

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-91-14243 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009A

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.473

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
SAHPLE ID LAB : EE-91-14244 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009B

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.473

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

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14245 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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

TEST CODE :SPNPAH1 JOB NUMBER :9101.473

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-91-14246 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009D

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14028 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S010A
SAMPLE LOCATION :

| 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 : 9101.437

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-91-14025 MATRIX : SOLID
SAMPLE ID CLIENT: P25-SO11A
SAMPLE LOCATION :

| 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 : 9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAR - LC UNITS : UG/KG
SAHPLE ID LAB : BE-91-14026 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S011B
SAMPLE LOCATION :

| 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 :9101.437

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-91-14029 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S0108
SAMPLE LOCATION :

| 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 : 9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14030 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S010C
SAHPLE LOCATION :

| 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 :9101.473

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
SAHPLE ID LAB : EE-91-14250 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015A

| 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 :9101.473

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-91-14251 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015B

| 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 :9101.437

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-91-14017 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S0148
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14018 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S014C
SAMPLE LOCATION :

| 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 :9101.437

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 : EE-91-14021 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013C
SAMPLE LOCATION :

| 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 : 9101.437

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-91-14016 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S014A
SAMPLE LOCATION :

| 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 LIHIT

TEST CODE : SPNPAH1 JOB NUMBER : 9101.437

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 : EE-91-14019 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013A
SAMPLE LOCATION :

| 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 BELOV STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9101.437

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
SAHPLE ID LAB : BE-91-14020 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013B
SAMPLE LOCATION :

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

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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 :9101.473

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-91-14248 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S0128

| 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 :9101.473

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-91-14249 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012C

| 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 :9101.437

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-91-14027 MATRIX : SOLID
SAMPLE ID CLIENT: P25-SO11C
SAMPLE LOCATION :

| 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 :9101.473

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 : EE-91-14247 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012A

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

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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

9101.437

(ug)

| Parameter | E & E Laboratory No. 91- | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Benzo(a)pyrene | | | | | |
| | 14029 | ND | 50 | 50 | 100 |
| | Blank #3 | ND | 50 | 44 | 88 |

ND = NOT DETECTED

## QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED SOIL SAMPLES

9101.473

(ug)

| Parameter | E & E Laboratory No. 91- | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Benzo(a)pyrene | | | | | |
| | 14230 MS | ND | 50 | 49 | 98 |
| | 14240 MS | ND | 50 | 49 | 98 |
| | 14250 MS | ND | 50 | 47 | 94 |

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.506

( ug )

| Parameter | E & E Laboratory No. 91-14498 MS | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Benzo(a)pyrene | | ND | 50 | 43 | 86 |

ND = NOT DETECTED

TEST CODE :SPNPHL1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14225 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001A

| 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 BELOV STATED DETECTION LIHIT

TEST CODE : SPNPHL1 JOB NUMBER : 9101.473

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-91-14226 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001B

| 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 :9101.473

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 : HE-91-14227 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001C

| 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 :9101.437

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-91-14013 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002A
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14014 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002B
SAMPLE LOCATION :

| 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 LIHIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.437

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-91-14015 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002C
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Total as Trichlorophenol | ND | | 2000 |

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QUALIFIERS: C = COMMENT NO = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN DLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SMPLE ID LAB : BE-91-14228 MATRIX : SOLID
SMPLE ID CLIENT: P25-S003A

| 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 :9101.473

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-91-14229 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003B

| 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 : 9101.473

**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-91-14230 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003C

| 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 = PRBSENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.473

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-91-14231 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004A

| 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 : 9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14232 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004B

| 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 :9101.473

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-91-14233 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004C

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14234 HATRIX : SOLID
SAMPLE ID CLIENT: P25-S005A

| PARAMETER | RESULTS | Q | NT. LIMIT |
|---|---|---|---|
| Total as Trichlorophenol | ND | | 2000 |

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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 :9101.473

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-91-14235 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 :9101.473

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 : RE-91-14236 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 BELOV STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.473

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-91-14237 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S006A

| 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 : 9101.473

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-91-14238 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 :9101.473

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-91-14239 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S006C

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Total as Trichlorophenol | ND | | 2000 |

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.473

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-91-14240* MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007A

| 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 BELOV STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.473

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-91-14241 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007B

| 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 : 9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGBT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14242 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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

TEST CODE : SPNPHL1 JOB NUMBER : 9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNG PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14022 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008A
SAMPLE LOCATION :

| 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 :9101.437

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

**CLIENT** : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14023 HATRIX : SOLID
SAUPLE ID CLIENT: P25-S008B
SAUPLE LOCATION :

| 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 :SPNPBL1 JOB NUMBER :9101.437

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-91-14024 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008C
SAMPLE LOCATION :

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14243 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009A

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PHASE I BATCB 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14244 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009B

| 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 :9101.473

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-91-14245 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009C

| 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 : 9101.473

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-91-14246 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009D

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14028 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S010A
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| 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 :9101.437

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-91-14029 HATRIX : SOLID
SAMPLE ID CLIENT: P25-S010B
SAMPLE LOCATION :

| 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 :9101.437

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-91-14030 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S010C
SAMPLE LOCATION :

| 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 :9101.437

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-91-14025 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S011A
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14026 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S011B
SAMPLE LOCATION :

| 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 :9101.437

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-91-14027 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S011C
SAMPLE LOCATION :

| 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 : 9101.473

**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-91-14247 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012A

| 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 :9101.473

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-91-14248 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012B

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EB-91-14249 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012C

| 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 :SPNP&P1 JOB NUMBER :9101.473

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-91-14227 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001C

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| 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 | | 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 :9101.437

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-91-14013 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002A
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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 |

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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 :9101.473

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-91-14225 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S001A

| 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 |

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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 :9101.473

Ecology 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 : BE-91-14226 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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

TEST CODE :SPNP&P1 JOB NUMBER :9101.437

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-91-14014 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002B
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PEST./PCB UNITS : UG/KG
SAHPLE ID LAB : EE-91-14015 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S002C
SAHPLE LOCATION :

| 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 :9101.473

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-91-14228 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003A

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Eeptachlor | 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 |

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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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14229 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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-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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14230 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S003C

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Eeptachlor | 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 :9101.473

Bcology 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-91-14231 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004A

| 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 BELOV STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.473

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-91-14232 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004B

| 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 |

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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 :9101.473

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 : BE-91-14233 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S004C

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| Hcptachlor | 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 LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.473

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-91-14234 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S005A

| 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 :9101.473

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-91-14235 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S005B

| 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 |

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

TEST CODE : SPNP&P1 JOB NUMBER : 9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : BE-91-14236 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S005C

| 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 :9101.473

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 : BE-91-14237 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S006A

| PARAMETER | RESULTS | 0 | ONT. 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 :SPNPHL1 JOB NUMBER :9101.437

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
SAHPLE ID LAB : EE-91-14019 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013A
SAMPLE LOCATION :

| 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 :9101.437

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-91-14020 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013B
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| 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 :9101.437

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-91-14021 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013C
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Total as Trichlorophenol | ND | | 2000 |

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.437

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
SAHPLE ID LAB : EE-91-14016 MATRIX : SOLID
SAHPLE ID CLIENT: P25-SO14A
SAMPLE LOCATION :

| 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 = PRBSENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14017 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S014B
SAMPLE LOCATION :

| 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 LIHIT

TEST CODE : SPNPHL1 JOB NUMBER : 9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCB 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID.LAB : EE-91-14018 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S014C
SAMPLE LOCATION :

| 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 :9101.473

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-91-14250 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015A

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Total as Trichlorophenol | ND | | 2000 |

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14251 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015B

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Total as Trichlorophenol | ND | | 2000 |

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.473

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-91-14252 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015C

| 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 :9101.506

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-91-14495 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S016A

| 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 :9101.506

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
SAHPLE ID LAB : EE-91-14496 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S016AD

| 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

TBST CODE :SPNPHL1 JOB NUMBER 19101.506

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14497 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S017A

| 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 : SPNPEL1 JOB NUMBER : 9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14498 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S017AD

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SMPLE ID LAB : METHOD BLANK MATRIX : SOLID
SMPLE LOCATION :

| 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 BBLOV STATED DETECTION LIMIT

TEST CODE : SPNPBL1 JOB NUMBER : 9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-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 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 :9101.506

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASB I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

| 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 STATBD DETECTION LIMIT

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.473

(ug)

| Parameter | E & E Laboratory No. 91- Blank Spike | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | | ND | 500 | 430 | 86 |

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.506

( ug )

| Parameter | E & E Laboratory No. 91- Blank Spike | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | | ND | 100 | 132 | 132 |

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.437

| | | (ug) | | | |
|---|---|---|---|---|---|
| Parameter | E & E Laboratory No. 91- Blank Spike | Original Value | Amount Added | Amount Determined | Percent Recovery |
| 2,4,6-Trichlorophenol | | ND | 50 | 48 | 96 |

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.473

| | | (ug) | | | |
|---|---|---|---|---|---|
| Parameter | E & E Laboratory No. 91- Blank Spike | Original Value | Amount Added | Amount Determined | Percent Recovery |
| 2,4,6-Trichlorophenol | | ND | 500 | 404 | 81 |

ND = NOT DETECTED

TEST CODE :SPNP&P1 JOB NUMBER :9101.473

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 : 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 |
| 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 :9101.506

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./ — UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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 DBTECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14020)

9101.437

| Compound | Original Result | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|
| | | (ug/kg) | | |
| Heptachlor | ND | 400 | ,474 | 118 |
| Lindane | ND | 400 | 414 | 104 |
| Aldrin | ND | 400 | 446 | 112 |
| 4,4'-DDT | ND | 1000 | 1433 | 143 |
| Dieldrin | ND | 1000 | 1227 | 123 |
| Endrin | ND | 1000 | 1264 | 126 |
| Chlordane | ND | - - | - - | NA |
| 4,4'-DDE | ND | - - | - - | NA |
| PCB-1254 | ND | 5000 | 5831 | 117 |

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14030)

9101.437

| Compound | Original Result | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|
| | | (ug/kg) | | |
| Heptachlor | ND | 400 | 505 | 126 |
| Lindane | ND | 400 | 445 | 111 |
| Aldrin | ND | 400 | 477 | 119 |
| 4,4'-DDT | ND | 1000 | 1482 | 148 |
| Dieldrin | ND | 1000 | 1307 | 131 |
| Endrin | ND | 1000 | 1333 | 133 |
| Chlordane | ND | - - | - - | NA |
| 4,4'-DDE | ND | - - | - - | NA |
| PCB-1254 | ND | 5000 | 6290 | 126 |

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14244)

9101.473

| Compound | Original Result | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|
| | (ug/kg) | | | |
| Heptachlor | ND | 400 | 415 | 104 |
| Lindane | ND | 400 | 388 | 97 |
| Aldrin | ND | 400 | 440 | 110 |
| 4,4'-DDT | ND | 1000 | 1114 | 111 |
| Dieldrin | ND | 1000 | 1123 | 112 |
| Endrin | ND | 1000 | 1125 | 112 |
| PCB-1254 | ND | 5000 | 5785 | 116 |

ND = NOT DETECTED

NA = NOT APPLICABLE

TEST CODE : SPNP&P1 JOB NUMBER : 9101.473

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-91-14238 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 :9101.473

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
SMPLE ID LAB : EE-91-14239 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S006C

| PARAMETER | RESULTS | Q | ONT. LIMIT |
|---|---|---|---|
| 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 | | 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 :9101.473

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-91-14240 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007A

| 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 :9101.473

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 : BE-91-14241 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007B

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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 LIHIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGET
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14242 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S007C

| 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 :9101.437

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-91-14022 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008A
SAMPLE LOCATION :

| 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PEST./PCB UNITS : UG/KG
SAHPLE ID LAB : EE-91-14023 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008B
SAMPLE LOCATION :

| 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 = COMHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.437

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-91-14024 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S008C
SAMPLE LOCATION :

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGET
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14243 MATRIX : SOLID
SAMPLE ID CLIENT: P25-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 | PRESENT | L | 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 :9101.473

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-91-14244 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009B

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| 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 | PRESENT | L | 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 :9101.473

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-91-14245 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009C

| 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 | PRESENT | L | 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 :9101.473

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 : BE-91-14246 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S009D

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| €laptachlor | 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 | PRESENT | L | 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 :9101.437

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-91-14028 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S010A
SAMPLE LOCATION :

| 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 :9101.437

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-91-14029 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S010B
SAHPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| 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 | | 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 : 9101.437

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-91-14030 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S010C
SAMPLE LOCATION :

| 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 :9101.437

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-91-14025 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S011A
SAMPLE LOCATION :

| 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 BELOV STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.437

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-91-14026 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S011B
SAMPLE LOCATION :

| 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 |

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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 :9101.437

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 : BE-91-14027 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S011C
SAMPLE LOCATION :

| 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 :9101.473

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-91-14247 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012A

| 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 = COMHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.473

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 : BE-91-14248 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012B

| 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 :9101.473

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-91-14249 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S012C

| PARAMETER | RESULTS | Q | PNT. 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 :9101.437

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-91-14019 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013A
SAMPLE LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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 :9101.437

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-91-14020 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013B
SAMPLE LOCATION :

| 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 |

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.437

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-91-14021 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S013C
**SAMPLE** LOCATION :

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Eeptachlor | 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 |

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**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 :9101.437

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-91-14016 MATRIX : SOLID
SAMPLE ID CLIENT: P25-SO14A
SAMPLE LOCATION :

| 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 :9101.437

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
SAHPLE ID LAB : EE-91-14017 MATRIX : SOLID
SAHPLE ID CLIENT: P25-S014B
SAHPLE LOCATION :

| 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 :9101.437

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-91-14018 MATRIX : SOLID

SAMPLE ID CLIENT: P25-S014C
SAMPLE LOCATION :

| 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 :9101.473

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-91-14250 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015A

| PARAMETER | RESULTS | Q | ONT. 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 :9101.473

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-91-14251 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015B

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Eeptachlor | 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 :9101.473

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-91-14252 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S015C

| 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 BELOV STATED DETECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.506

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-91-14495 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S016A

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Eeptachlor | 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 CODB :SPNP&P1 JOB NUMBER :9101.506

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 : BB-91-14496 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S016AD

| 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 DBTECTION LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 1 MATRIX : SOLID

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Eeptachlor | 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 :9101.437

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TBST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 2 HATRIX : 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 :9101.506

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-91-14497 MATRIX : SOLID
SAMPLE ID CLIENT: P25-S017A

| 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 | 8400 | | 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 :9101.506

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
SAHPLB ID LAB : BB-91-14498 MATRIX : SOLID
SAHPLB ID CLIENT: P25-S017AD

| PARAMETER | RESULTS | Q | QNT. LIHIT |
|---|---|---|---|
| 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 | 14000 | | 5000 |

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

APPENDIX H

TEMPORARY HONITORING WELL GROUNDWATER SAMPLING
ANALYTICAL SCREENING RESULTS

**MEMORANDUM**

TO: John Barksdale

FROM: Gary Hahn

DATE: July 2, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.473

CC: Lab File

Attached is the laboratory report of the analysis conducted on thirty-four samples received at the Analytical Services Center on June 22, 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.

Ph samples #14219, #14220, #14221, #14222, #14223, and #14224 were incorrectly preserved.

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

**ecology and environment, inc.**
288 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

See Jack Miller
2 2 2

# CHAIN-OF-CUSTODY RECORD



Project No.: VH8000
Project Name: NAS Pensacola Site 25 Group G
Project Manager: John Barksdale
Samplers: (Signatures) Arnold C Lamb
Field Team Leader: Arnold C. Lamb

| | STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | GRAB | AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | Screening metals | Screening VOAs | Screening Pest./PCB | Screening PAH's | Screening phenols | TRPH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | GWD04 | 6/21/91 | 1327 | | X | | Low | TW004 | 5 | X | X | X | X | X | X | VOA preserved with HCL <2 |
| 25 | GWD04D | 6/21/91 | 1327 | | X | | ↓ | TW004 | 5 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | metals preserved with $HNO_3$ <2 |
| 25 | GWD11 | 6/21/91 | 1630 | | X | | ↓ | TW011 | 5 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | TRPH preserved with $H_2SO_4$ <2 |
| | | | | | | | | | | | | | | | | VOA Lot# 1123033 |
| | | | | | | | | | | | | | | | | QC# 10353C |
| | | | | | | | | | | | | | | | | ½ gal. Amber Lot# 1071061 |
| | | | | | | | Preservative: | | | | | | | | | QC# 10180C |
| | | | | | | | $HNO_3$ Mallinckrodt Lot# 6623K | ECG | | | | | | | | Liter poly Lot# 1092021 |
| | | | | | | | Sulfuric Mallinckrodt Lot# 6843 | KCBG | | | | | | | | QC# 10230C |
| | | | | | | | HCL Mallinckrodt Lot# 9587 | KEGP | | | | | | | | Liter Amber Lot# 1057051 |
| | | | | | | | | | | | | | | | | QC# 10141C |
| | | | | | | | | | | | | | | | | All samples packed in ICE <4°C |

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| Arnold C Lamb | 6/21/91 1700 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| | | | | | |
| Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |
| Fed. Express | 6-22-91/1000 | [illegible] | | | |

Ship Via: Federal Express
BL/Airbill Number: 0776546046
Date: 6/21/91

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

234066

Analysis As per site QAPP
See Jack Miller

**ecology and environment, inc.**
388 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

## CHAIN-OF-CUSTODY RECORD



Project No.: UH8000
Project Name: NAS Pensacola Site 25 GroupG
Project Manager: John Burksdale
Samplers: (Signatures)
Field Team Leader: Arnold C. Lamb

| | STATION NUMBER | DATE | TIME | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE TYPE AIR | SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)* | STATION LOCATION | NUMBER OF CONTAINERS | Screening Metals | Screening VOA's | Screening Pest/PCB | Screening PAH's | Screening Phenols | TRPH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | GW007 | 6/21/91 | 1530 | | X | | Low | Bkgd TW007 | 5 | X | X | X | X | X | X | VOA preserved with HCL <2 |
| 5 | GW006 | 6/21/91 | 1200 | | X | | ↓ | TW006 | 5 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | metals preserved with $HNO_3$ <2 |
| 15 | GW012 | 6/21/91 | 1550 | | X | | ↓ | TW012 | 5 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | TRPH preserved with $H_2SO_4$ <2 |

Preservative:
$HNO_3$ Mallinckrodt Lot# 6623KECG
Sulfuric Mallinckrodt Lot# 6843KCBG
HCL Mallinckrodt Lot# 5587KEGP

VOA Lot# 1123033
QC# 10353C
½ gal Amber Lot# 1071061
QC# 10180C
Liter poly Lot# 1092021
QC# 10230C
Liter amber Lot# 1057051
QC# 10141C

All samples packed in ICE <4°C

| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
|---|---|---|---|---|---|
| | 6/21/91 1700 | | | | |
| Relinquished By: (Signature) | Date/Time: | Received By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received By: (Signature) |
| | | | | | |
| Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) | Relinquished By: (Signature) | Date/Time: | Received For Laboratory By: (Signature) |
| Fed. Express | 6-22-91 1000 | | | | |

Ship Via: FEDERAL EXPRESS
BL/Airbill Number: 0776546024
Date: 6/21/91

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

234056

ECOLOGY & ENVIRONMENT, INC.
ANALYTICAL SERVICES CENTER
SAMPLE PRESERVATION CHECK FORM

Job number: 9101.473 Page: 1 of 1
Date received: 6/24/91
Inspected by: Joe D Sargentti

| Sample Container Number | Container Test | Preservitive | pH |
|---|---|---|---|
| 14219.04 | TRPH | $H_2SO_4$ | 7 |
| .05 | metals | $HNO_3$ | 2 |
| 14220.04 | TRPH | $H_2SO_4$ | 6 |
| .05 | metals | $HNO_3$ | <2 |
| 14221.04 | TRPH | $H_2SO_4$ | 7 |
| .05 | metals | $HNO_3$ | <2 |
| 14222.04 | TRPH | $H_2SO_4$ | 7 |
| .05 | metals | $HNO_3$ | <2 |
| 14223.04 | TRPH | $H_2SO_4$ | 7 |
| .05 | metals | $HNO_3$ | 3 ✓ |
| 14224.04 | TRPH | $H_2SO_4$ | 7 |
| .05 | metals | $HNO_3$ | <2 |

JOB NUMBER : 9101.473

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

| LAB SAMPLE ID | CLIENT SAMPLE ID | TEST CODE | DATE SAMPLED | DATE EXTRACTED | DATE ANALYZED |
|---|---|---|---|---|---|
| 14219.01 | P25-GW004 | WPNPRG1 | 06/21/91 | | 06/24/91 |
| 14219.03 | P25-GW004 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHL1 | 06/21/91 | | 06/28/91 |
| 14219.04 | P25-GW004 | WPNTPH1 | 06/21/91 | | 06/24/91 |
| 14219.05 | P25-GW004 | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14220.01 | P25-GW004D | WPNPRG1 | 06/21/91 | | 06/24/91 |
| 14220.03 | P25-GW004D | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHL1 | 06/21/91 | | 06/28/91 |
| 14220.04 | P25-GW004D | WPNTPH1 | 06/21/91 | | 06/24/91 |
| 14220.05 | P25-GW004D | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14221.01 | P25-GW006 | WPNPRG1 | 06/21/91 | | 06/24/91 |
| 14221.03 | P25-GW006 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHL1 | 06/21/91 | | 06/28/91 |
| 14221.04 | P25-GW006 | WPNTPH1 | 06/21/91 | | 06/24/91 |
| 14221.05 | P25-GW006 | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14222.01 | P25-GW007 | WPNPRG1 | 06/21/91 | | 06/24/91 |
| 14222.03 | P25-GW007 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHL1 | 06/21/91 | | 06/28/91 |
| 14222.04 | P25-GW007 | WPNTPH1 | 06/21/91 | | 06/24/91 |
| 14222.05 | P25-GW007 | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14223.01 | P25-GW011 | WPNPRG1 | 06/21/91 | | 06/24/91 |
| 14223.03 | P25-GW011 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHL1 | 06/21/91 | | 06/28/91 |
| 14223.04 | P25-GW011 | WPNTPH1 | 06/21/91 | | 06/24/91 |
| 14223.05 | P25-GW011 | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14224.01 | P25-GW012 | WPNPRG1 | 06/21/91 | | 06/24/91 |
| 14224.03 | P25-GW012 | WPNP&P1 | 06/21/91 | | 06/27/91 |
| | | WPNPAH1 | 06/21/91 | | 06/26/91 |
| | | WPNPHL1 | 06/21/91 | | 06/28/91 |
| 14224.04 | P25-GW012 | WPNTPH1 | 06/21/91 | | 06/24/91 |
| 14224.05 | P25-GW012 | WPNMET1 | 06/21/91 | | 06/25/91 |
| 14225.01 | P25-S001A | SPNPRG1 | 06/20/91 | | 06/24/91 |
| 14225.02 | P25-S001A | SPNTPH1 | 06/20/91 | | 06/24/91 |
| 14225.03 | P25-S001A | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/25/91 |
| | | SPNPHL1 | 06/20/91 | | 06/25/91 |
| 14226.01 | P25-S001B | SPNPRG1 | 06/20/91 | | 06/24/91 |
| 14226.02 | P25-S001B | SPNTPH1 | 06/20/91 | | 06/24/91 |
| 14226.03 | P25-S001B | SPNMET1 | 06/20/91 | | 06/25/91 |
| | | SPNP&P1 | 06/20/91 | | 06/24/91 |
| | | SPNPAH1 | 06/20/91 | | 06/25/91 |

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14219 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004

| PARAMETER | RBSULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 69 | UG/L |
| Chromium | 55 | | 10 | UG/L |
| Zinc | 53 | | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14220 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004D

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 69 | UG/L |
| Chromium | 49 | | 10 | UG/L |
| Zinc | 51 | | 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14221 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW006

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 69 | UG/L |
| Chromium | 41 | | 10 | UG/L |
| Zinc | 33 | | 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

JOB NUMBER :9101.473

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

CLIENT : **UH-8000** NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14222 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW007

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 69 | UG/L |
| Chromium | 32 | | 10 | UG/L |
| Zinc | 50 | | 20 | UG/L |
| Lead | 110 | | 40 | UG/L |
| Cadmium | 10 | | 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**

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14223 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW011

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 69 | UG/L |
| Chromium | 100 | | 10 | UG/L |
| Zinc | 170 | | 20 | UG/L |
| Lead | ND | | 40 | UG/L |
| Cadmium | 8.8 | | 5.0 | UG/L |
| Nickel | 99 | | 40 | UG/L |
| Copper | 41 | | 25 | UG/L |
| Silver | ND | | 10 | UG/L |

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14224 MATRIX: WATER
**SAMPLE ID CLIENT: P25-GW012**

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 69 | UG/L |
| Chromium | 48 | | 10 | UG/L |
| Zinc | 170 | | 20 | UG/L |
| Lead | 98 | | 40 | UG/L |
| Cadmium | 6.0 | | 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

JOB NUMBER :9101.473

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. LIHIT | UNITS |
|---|---|---|---|---|
| Arsenic | ND | | 69 | 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 LIHIT
NA = NOT APPLICABLE

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

9101.473

(ug/L)

| Parameter | E & E Laboratory No. 91-14222 | Original Analysis | Replicate Analysis | Relative Percent Difference (RPD) |
|---|---|---|---|---|
| Arsenic | | ND | ND | NC |
| Chromium | | 32 | 27 | 15 |
| Zinc | | 50 | 44 | 12 |
| Lead | | 110 | 78 | 33 |
| Cadmium | | 10 | 5.7 | 57 |
| 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 WATER SAMPLES

9101.473

(ug/L)

| Parameter | E & E Laboratory No. 91-14222 | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Arsenic | | ND | 2000 | 1800 | 88 |
| Chromium | | 32 | 200 | 220 | 93 |
| Zinc | | 50 | 500 | 530 | 96 |
| Lead | | 110 | 500 | 520 | 82 |
| Cadmium | | 10 | 50 | 58 | 96 |
| Nickel | | ND | 500 | 500 | 100 |
| Copper | | ND | 250 | 250 | 102 |
| Silver | | ND | 50 | 57 | 114 |

ND = NOT DETECTED

NC = NOT CALCULABLE

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

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14219 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004

| PARAMETER | RESULTS | Q | QNT. LIMIT | UNITS |
|---|---|---|---|---|
| TRPH | ND | | 1.0 | MG/L |

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14220 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004D

| 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14221 MATRIX : WATER
SAHPLE ID CLIENT: P25-GW006

| 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14222 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW007

| 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

JOB NUMBER :9101.473

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 WATER SAMPLES

9101.473

(mg/L)

| Parameter | E & E Laboratory No. 91- | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| TRPH | Batch QC | ND | 8.5 | 8.4 | 98.6 |

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BBCAUSE SAMPLE AMOUNT IS POUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14223 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW011

| 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

JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14224 MATRIX: VATER
SAMPLE ID CLIENT: P25-GW012

| 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

TEST CODE :WPNPRG1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14219 MATRIX : WATER
SAMPLE ID CLIENT: P25-GW004

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Benzene | ND | | lo |
| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14220 MATRIX : WATER
SAMPLE ID CLIENT: P25-GW004D

| 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 - Dichloroethene | ND | | 10 |
| Methylene Chloride | ND | | 10 |
| Trans - 1,2 - Dichloroethene | ND | | 10 |
| 1,1 - Dichloroethane | ND | | 10 |
| 1,1,1 - Trichlorocthane | 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 :9101.473

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-91-14221 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW006

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Benzene | ND | | lo |
| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14222 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW007

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Benzene | ND | | lo |
| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NANE : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14223 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW011

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Benzene | ND | | lo |
| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14224 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW012

| PARAMETER | RESULTS | 0 | ONT. 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 - 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 :9101.473

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

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Benzene | ND | | lo |
| 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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.473

| Compound | E & E Laboratory No. 91- | Percent Recovery |
|---|---|---|
| Trifluorotoluene | 14219 | 97 |
| | 14220 | 94 |
| | 14221 | 100 |
| | 14222 | 98 |
| | 14223 | 92 |
| | 14224 | 114 |
| | Method Blank | 100 |
| 1,4-dichlorobutane | 14219 | 109 |
| | 14220 | 107 |
| | 14221 | 118 |
| | 14222 | 107 |
| | 14223 | 106 |
| | 14224 | 96 |
| | Method Blank | 100 |

TEST CODE :WPNPAH1 JOB NUMBER :9101.473

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-91-14219 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAXPLE ID LAB : EE-91-14220 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004D

| 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 :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-14221 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW006

| 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 :9101.473

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-91-14222 MATRIX: WATER
SAMPLE ID CLIENT: P25-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

TEST CODE :WPNPAH1 JOB NUMBER :9101.473

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-91-14223 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW011

| 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** :9101.473

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-91-14224 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW012

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

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

TEST CODE :WPNPAH1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PAE - 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 WATER SAMPLES

9101.473

(ug)

| Parameter | E & E Laboratory No. 91- | Original Value | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|---|
| Benzo(a)pyrene | 14222 | ND | 5.0 | 4.5 | 90 |

ND = NOT DETECTED

TEST CODE :WPNPHL1 JOB NUMBER :9101.473

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-91-14219 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004

| 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 :9101.473

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-91-14220 MATRIX : WATER
SAMPLE ID CLIENT: P25-GW004D

| 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 :9101.473

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-91-14221 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW006

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Total as Trichlorophenol | ND | | 100 |

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

TEST CODE :WPNPHL1 JOB NUMBER :9101.473

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAXPLE ID LAB : EE-91-14222 MATRIX : WATER
SAMPLE ID CLIENT: P25-GW007

| 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 :9101.473

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-91-14223 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW011

| 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 :9101.473

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-91-14224 MATRIX : WATER
SAMPLE ID CLIENT: P25-GW012

| 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 :9101.473

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

9101.473

| | | (ug) | | | |
|---|---|---|---|---|---|
| Parameter | E & E Laboratory No. 91- Blank Spike | Original Value | Amount Added | Amount Determined | Percent Recovery |
| 2,4,6-Trichlorophenol | | ND | 100 | 95 | 95 |

ND = NOT DETECTED

TEST CODE :WPNP&P1 JOB NUMBER :9101.473

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-91-14219 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004

| 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 :9101.473

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-91-14220 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW004D

| 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 :9101.473

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-91-14221 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW006

| PARAMETER | RESULTS | 0 | ONT. 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 :9101.473

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-91-14222 MATRIX: WATER
SAMPLE ID CLIENT: P25-GW007

| PARAMETER | RESULTS | Q | QNT. LIMIT |
|---|---|---|---|
| Eeptachlor | 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 :9101.473

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-91-14223 MATRIX : WATER
SAMPLE ID CLIENT: P25-GW011

| 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 :9101.473

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-91-14224 MATRIX : WATER
SAMPLE ID CLIENT: P25-GW012

| 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 :9101.473

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: WATER

| 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

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF WATER MATRIX SPIKE
(Sample # 14224)

9101.473

| Compound | Original Result | Amount Added | Amount Determined | Percent Recovery |
|---|---|---|---|---|
| | | (ug/L) | | |
| Eeptachlor | ND | 2.0 | 1.85 | 93 |
| Lindane | ND | 2.0 | 2.12 | 106 |
| Aldrin | ND | 2.0 | 1.74 | 87 |
| 4,4'-DDT | ND | 5.0 | 3.62 | 72 |
| Dieldrin | ND | 5.0 | 6.24 | 125 |
| Endrin | ND | 5.0 | 6.0 | 120 |
| PCB-1254 | ND | 25.0 | 23.2 | 93 |

ND = NOT DETECTED

NA = NOT APPLICABLE