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CONTAMINATION ASSESSMENT/ REMEDIAL ACTIVITIES INVESTIGATION RADIUM DIAL SHOP SEWER (SITE 27) NAVAL AIR STATION PENSACOLA PENSACOLA, FLORIDA

INTERIM DATA REPORT

November 1992

Contract N62467-88-C-0200

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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 Dial Shop Sewer (Site 27), located on the Naval Air Station (NAS) 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 27 is a former radium dial shop and the associated sanitary sewer. The shop was dismantled in 1976, and the remaining concrete foundation is currently used as a parking lot. The site is located on the eastern portion of NAS Pensacola just east of Murray Road and north of Farrar Road. The flow in the sanitary sewer line is from west to east immediately north of the building foundation and from north to south immediately east of the building foundation. An adjacent parking lot north of the building foundation is asphalt-paved. The areas south and west of the foundation are covered with grass and asphalt. A gravel and shell fragment parking lot is adjacent to the northeastern portion of the foundation.

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 sediment, soil, and groundwater samples; and a hydrologic assessment.

Sediment, soil, and groundwater contamination are all present on Site 27. Radium-226, metals, total recoverable petroleum hydrocarbons (TRPHs), volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and phenols are the primary contaminants. The

detected contamination is mainly attributable to past activities associated with former Building 709 and the sanitary sewer system.

The sediment sample collected from sanitary sewer manhole K-6, downflow from former Building 709, exhibited low levels of radium-226, metals, and TRPHs. However, the concentration of radium-226 does not exceed the U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), and the levels of metals detected were well below the Resource Conservation and Recovery Act (RCRA) Proposed Corrective Action Levels (PCALs). The flow from active facilities west of Site 27 through manhole K-6 might have also contributed to the analytes detected, other than radium-226.

Soil contamination is evident in two areas of the site. One area is in the south-central portion of the site adjacent to the former instrument shop. Soil samples collected in this area exhibited elevated levels of radium-226, chromium, and lead, primarily in the near surface soils. Only one soil sample in this area exceeded the EPA MCLs for radium-226 in soil. Given that the soil samples were composited over a 5-foot interval, other discrete soil intervals exceeding the MCLs for radium-226 may exist in this area. This possibility is of particular concern in the area between transformer 2621 and the southern edge of the Building 709 foundation near borings B015 and B016 where elevated radiation readings were detected during the radiation survey. It is unlikely, however, that surface soil elsewhere at the site would exceed the MCLs for radium-226, based on the radiation survey and sample screening results. The two A-interval (0 to 5 feet below land surface) soil samples collected south of the building foundation also exhibited elevated chromium and lead concentrations. The concentrations of chromium were far below the RCRA PCAL for hexavalent chromium. No RCRA PCAL exists for lead. The nature and distribution of these analytes in the soils in this area are suggestive of possible surface dumping and/or spilling of paint that contained radium.

The other area of soil contamination occurs in the north-central portion of the site and extends from the sanitary sewer line to an area just inside the Building 709 foundation where the former carburetor shop, degreaser, and cleaning tank were located. Soil samples from this area exhibited elevated concentrations of radium-226, metals, TRPHs,

VOCs, PAHs, and phenols. The high levels of VOCs, PAHs, and phenols detected in this area are probably related to leaks and spills of materials used during the operation of the former carburetor shop, as well as leaks from the sanitary sewer which was used for the disposal of wastes. The extent of soil contamination appears to be limited vest, north, and east of this area but is not delineated to the south beneath the building foundation.

Two general areas of groundwater contamination which correspond to the two areas of soil contamination are also present on Site 27. The shallow groundwater samples collected in the south-central portion of the site exhibited levels of radium-226, chromium, and lead which exceed the respective Florida Primary Drinking Water Standards (FPDWSs), as well as an elevated level of one VOC. The groundwater contamination detected in this area is likely the result of a surface spill of radium-containing paint or other material associated with activities in former Building 709. The shallow groundwater samples collected in the north-central portion of the site exhibited concentrations of arsenic and lead exceeding the respective FPDWSs, as well as elevated levels of TRPHs, total xylenes, and phenols. The groundwater contamination detected in this area is likely the result of activities associated with the former carburetor shop, degreaser, and cleaning tank which were located in this portion of former Building 709.

Although the shallow surficial zone of the Sand-and-Gravel Aquifer appears to be impacted in these areas on Site 27, no significant levels of any potential contaminants were detected in the groundwater samples from the deeper, main producing zone.

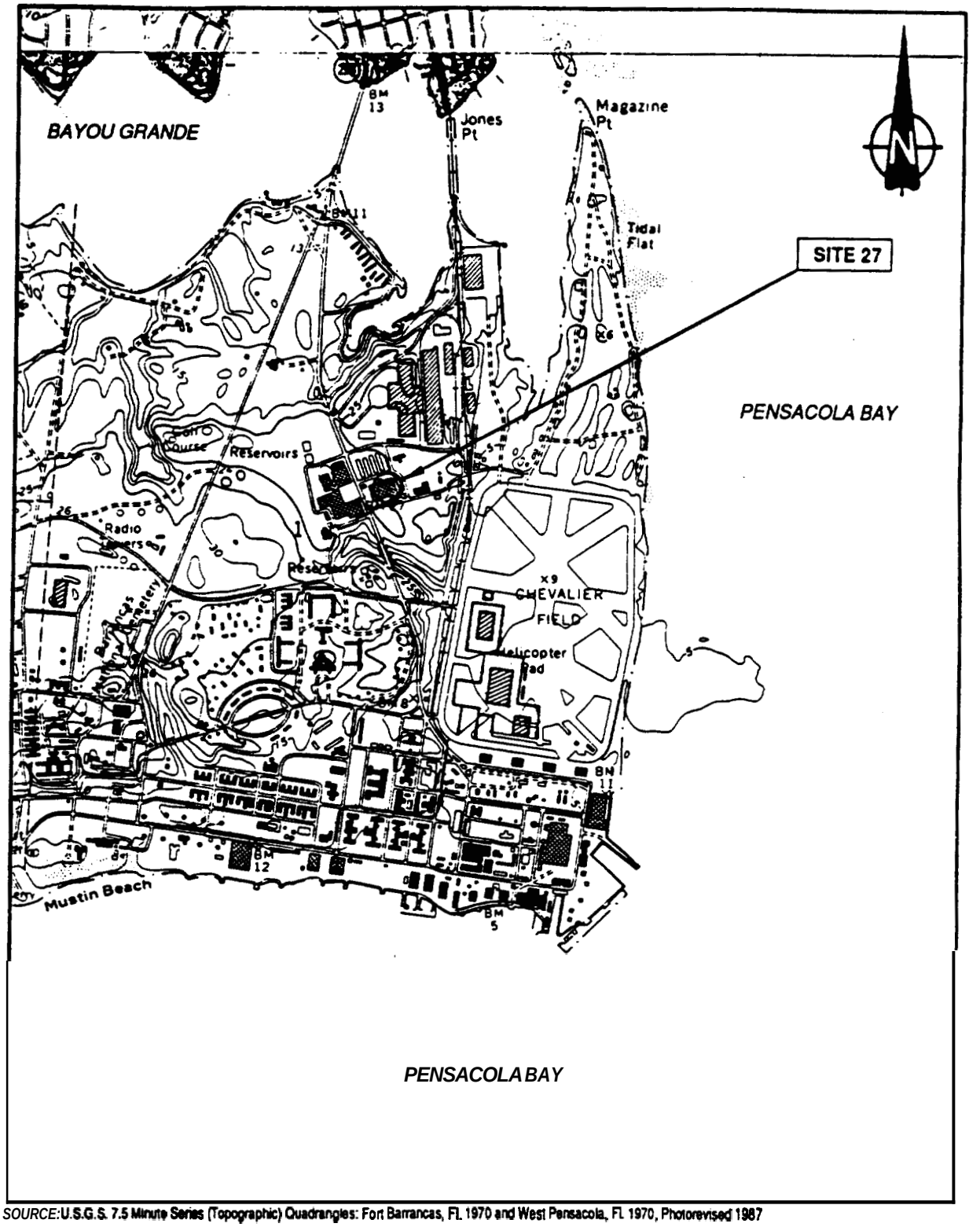
Further assessment activities are required at Site 27. The recommendations for additional work at this site will be incorporated in the revised Group G work plan.

1. INTRODUCTION

This Interim Data Report presents the findings of the Phase I investigation activities performed for Site 27, Radium Dial Shop Sewer, located at the Naval Air Station (NAS) in Pensacola, Escambia County, Florida. This report has been prepared by Ecology and Environment, Inc., (E & E) for the Southern Division, U.S. Navy, Naval Facilities Engineering Command, under Contract No. N62467-88-C-0200. The information presented in this report is based on information and file documents provided by the Navy and on information gathered during the Phase I fieldwork conducted on the site from April 1991 to August 1991. The investigation was conducted in accordance with the administrative documents prepared by E & E for this project, which include the June 1990 Project Management Plan, June 1990 Site Management Plan, July 1990 Generic Quality Assurance Project Plan (GQAPP), July 1990 General Health and Safety Plan, and June 1990 Contamination Assessment/Remedial Activities Investigation Work Plan--Group 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 27, located on the eastern portion of NAS Pensacola just east of Hurray Road and north of Farrar Road (see Figure 1-1), is a former radium dial shop (Building 709) and the associated sanitary sewer. The shop was dismantled in 1976, and the remaining concrete foundation is currently used as a parking lot (see Figure 1-2).

From the 1940s to 1976, Building 709 was used to rework instrument dials that were painted with radium-containing paint. It is estimated that 5,000 to 7,000 luminous dial instruments were reworked each year, using cleaning solutions containing benzene, acid, and other caustics. Approximately 1,500 gallons per year of the cleaning solution



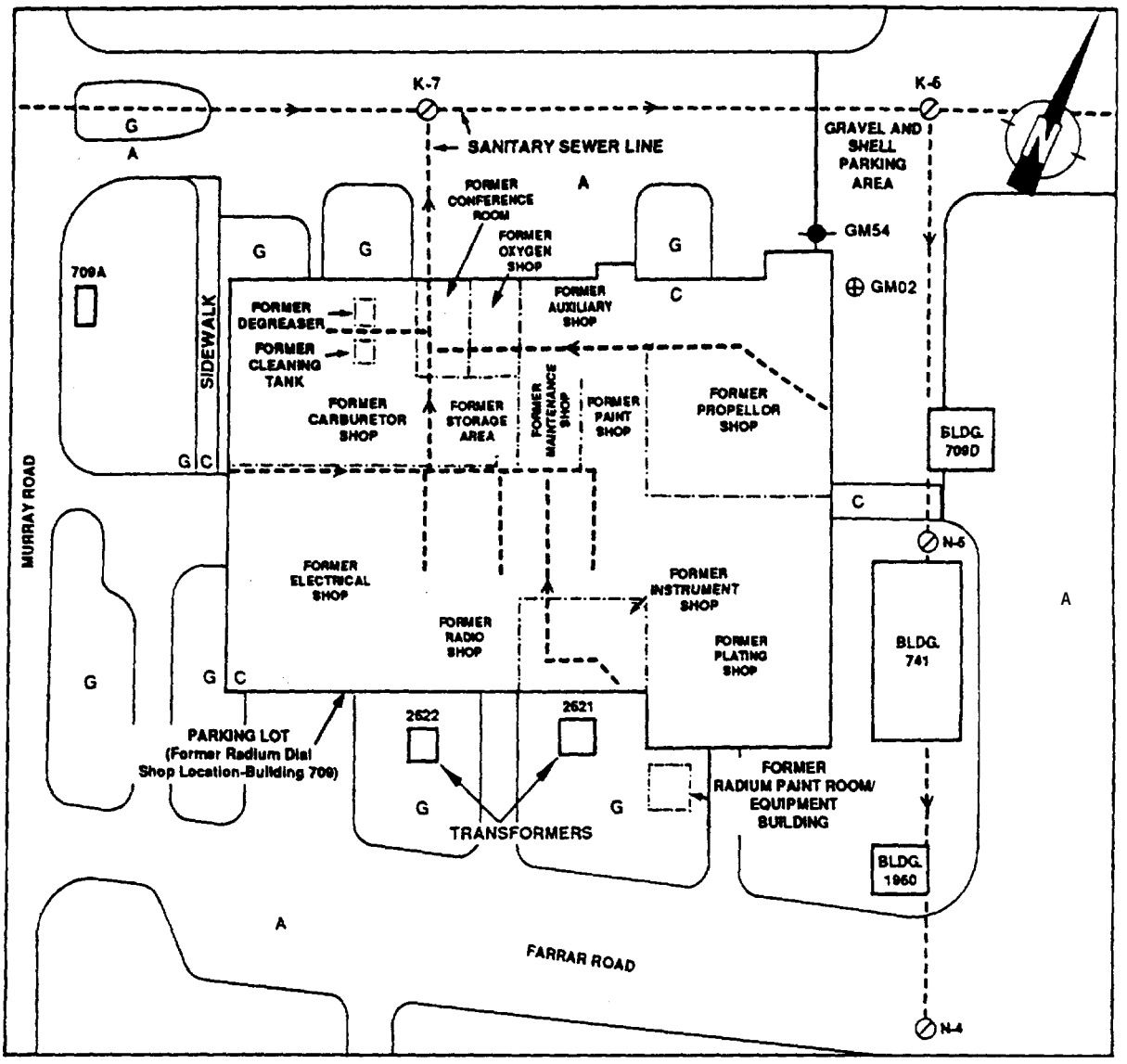
SOURCE: U.S.G.S. 7.5 Minute Series (Topographic) Quadrangles: Fort Barrancas, FL 1970 and West Pensacola, FL 1970, Photorevised 1987

SCALE

0 .5 1 MILE

0 1000 2000 3000 4000 5000 FEET

Figure 1-1
LOCATION MAP — NAS PENSACOLA SITE 27



SOURCE: U.S. Naval Air Station, Pensacola, Florida 1942, 1948, 1991; Ecology and Environment, Inc. 1991

SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	-----	Sanitary Sewer Line
C	Concrete-Paved Area	--➤--	Sanitary Sewer Line Flow Direction
G	Grass-Covered Area	⊕	Existing Permanent Shallow Monitoring Well
⊘	Sanitary Sewer Manhole	✦	Existing Permanent Deep Monitoring Well
K-7/N-4	Manhole Numbers	GM02	Permanent Monitoring Well Number
BLDG. 709D	Building		

Figure 1-2 SITE VICINITY MAP — NAS PENSACOLA SITE 27

contaminated with radium was poured down the drains of Building 709 and emptied into the sanitary sewer (Naval Energy and Environmental Support Activity [NEESA] 1983). The flow in the sanitary sewer line is from west to east immediately north of the building foundation and from north to south immediately east of the building foundation (see Figure 1-2). An adjacent parking lot north of the building foundation is asphalt-paved. The areas south and west of the foundation are covered with grass and asphalt. A gravel and shell fragment parking lot is adjacent to the northeastern portion of the foundation. 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 sediment, soil, and groundwater samples. In addition, a hydrologic assessment, which included the determination of groundwater and surface water elevations, groundwater 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 6 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. During 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 were

Table 2-1

PHOTOGRAPHS AND MAPS USED IN THE AERIAL PHOTOGRAPH ANALYSIS
NAS PENSACOLA SITE 27

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	1:2,400
	26126	11/18/48	1:4
	25881	4/12/48	1:32
	9835	11/30/42	1:50
	9836	11/30/42	1:16
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	11/21/86	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	3/25/68	1:24,000
	PD-285-8-03	10/8/64	1:12,000
	PD-285-7-01	10/8/64	1:12,000
	PNS-7054-3-1	10/12/61	1:24,000
	PNS-7034-2-1	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	11/21/06	1:4,800

14[NASP]UH8027:T0360/553/23

Source: Ecology and Environment, Inc., 1991.

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.

2.4 RADIATION SURVEY

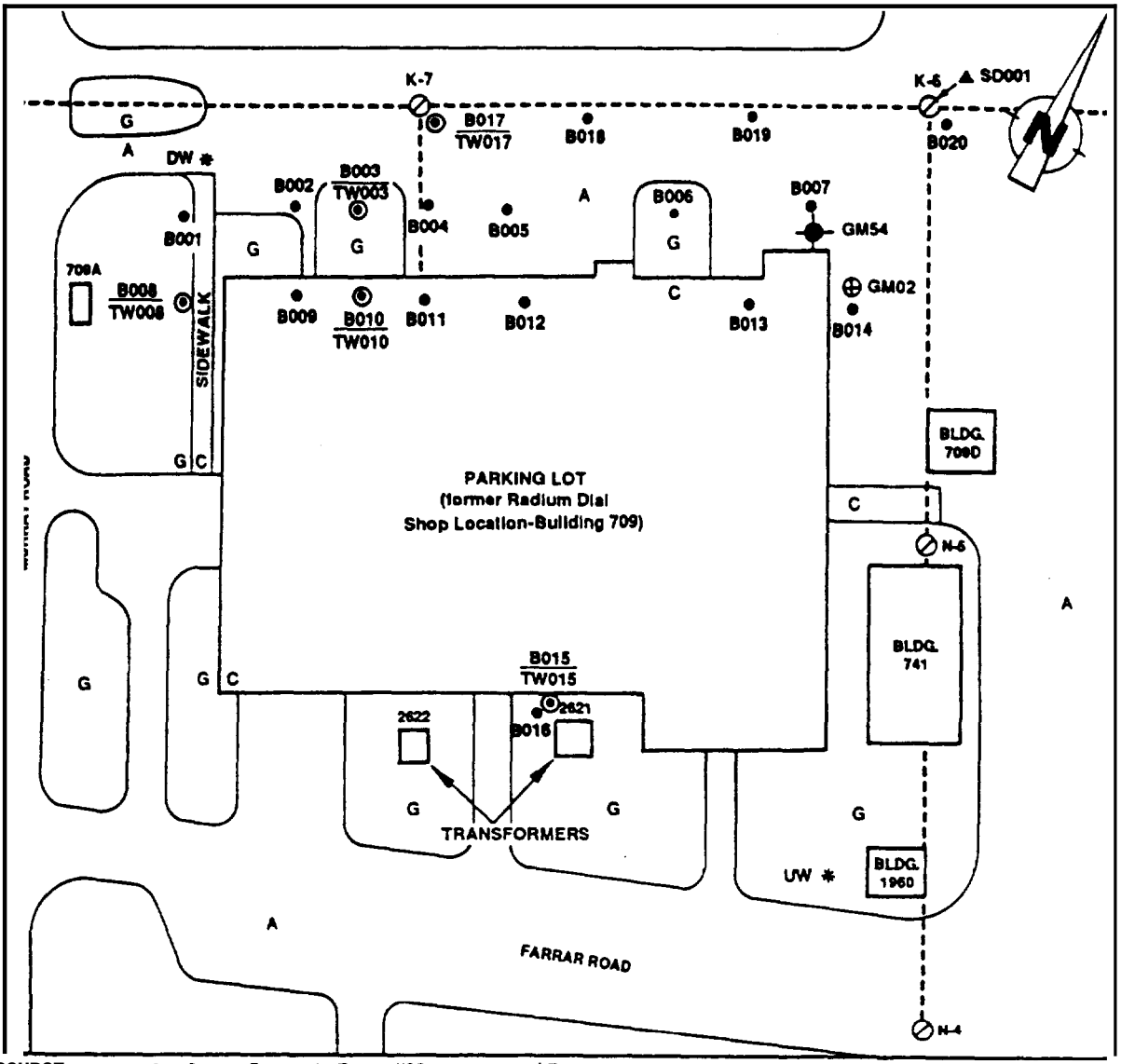
Following the establishment of the survey grid network described in this section, a radiation survey was conducted at Site 27 using a Bicron Micro-R-meter and an Eberline ESP-2 gamma scintillator with an attached 2-inch sodium iodide (NaI) probe.

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. The initial grid was later expanded to include the sewer lines. Baselines were set up at the site perimeters, and the site was gridded 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

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	GM02	Permanent Monitoring Well Number
C	Concrete-Paved Area	●	Soil Boring
G	Grass-Covered Area	○	Temporary Monitoring Well
⊘	Sanitary Sewer Manhole	B003	Soil Boring Number
K-7/N-4	Manhole Numbers	TW003	Temporary Monitoring Well Number
BLDG 709D	Building	✱	Particulate Air Screening Location
⊕	Existing Permanent Shallow Monitoring Well	DW/UW	Downwind/Upwind
✦	Existing Permanent Deep Monitoring Well	A	Sediment Sample
		SD001	Sediment Sample Number

Figure 2-1 PARTICULATE AIR SCREENING, SEDIMENT SAMPLE, SOIL BORING, AND TEMPORARY MONITORING WELL LOCATIONS — NAS PENSACOLA SITE 27

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 27.

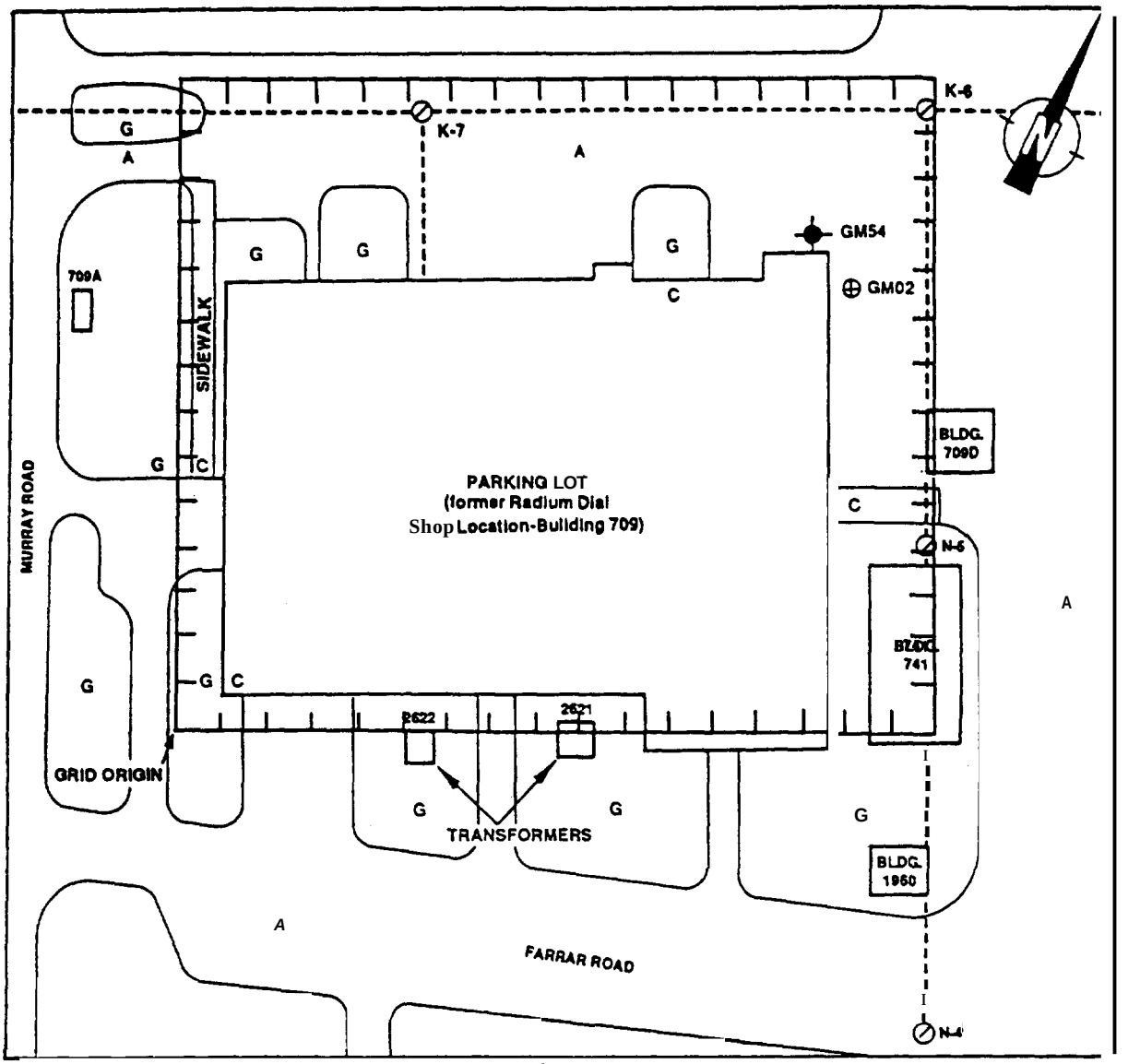
The radiation survey was conducted by obtaining measurements at each 25-foot interval grid coordinate and by thoroughly scanning the areas between grid coordinates. Readings for each grid coordinate, as well as any readings above background between grid coordinates, were recorded on radiation survey forms. The gamma scintillator reads gamma 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 gamma 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

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	------	Sanitary Sewer Line
C	Concrete-Paved Area	⊕	Existing Permanent Shallow Monitoring Well
G	Grass-Covered Area	✚	Existing Permanent Deep Monitoring Well
⊘	Sanitary Sewer Manhole	GM02	Permanent Monitoring Well Number
K-7/N-4	Manhole Numbers	⊥⊥⊥	Survey Grid Boundary
BLDG. 709D	Building		

Figure 2-2 SURVEY GRID MAP — NAS PENSACOLA SITE 27

placement strategies for the Phase I sediment samples, 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 and existing data 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 SEDIMENT SAMPLING

Three sediment samples, plus one duplicate sample, were proposed to be collected at Site 27. Due to the lack of sediment in the proposed sampling locations, only one sediment sample was collected. All sediment sampling and equipment decontamination activities were conducted in accordance with sections 6.9.2 and 6.10 of the GQAPP. The sediment sample was shipped to E & E's Analytical Services Center (ASC) in Buffalo, New York, and analyzed for the screening parameters listed in Table 2-2. Because the ASC does not analyze for radionuclides, a split sediment sample was sent to Controls for Environmental Pollution (CEP) in Santa Fe, New Mexico, and analyzed for radium-226.

2.8 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 was to screen for radioactive samples to be sent for Target Analyte List (TAL)/Target Compound List (TCL) analyses to CEP, a licensed mixed-waste laboratory. As will be discussed below, only one soil sample exceeded 2 times background radiation levels, requiring analysis by CEP.

Sample aliquots were cornposited 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 had equilibrated to a temperature between approximately 20°C and 30°C, an OVA was employed to determine the total

Table 2-2

SAMPLING AND ANALYTICAL SUMMARY
NAS PENSACOLA SITE 27

Medium	No. of Samplos	Duplicates	Total	Analytical Suite[a,b]
Sediment	1	0	1	A
Soil	74	3	77	A,C
Groundwator[d]	5	1	6	A

Medium	No. of Samples	Dupli-cates	Trip Blanks[f]	Field Blanks	Rinsate Blanks	Preservative Blanks[g]	Total	Analytical Suite[a,c]
Groundwater'	2	1	1	1	1	1	7	B

[NASP]UH8027:T0360/554/10

Key:

'Analytical suite dosignations aro as follows:

A = Volatile organic compounds (VOCs) including chlorobenzene, polynuclear aromatic hydrocarbons (PAHs), phenols, pesticides, and total polychlorinated biphenyls (PCBs), total rocovorable petroleum hydrocarbons (TRPHs), metals (total, unfiltered), pH, radium-226, and gross alpha (groundwater samples only).

B = Radium-226 (EPA 903.11, Target Compound List (TCL) VOCs (EPA 8240), TCL base/neutral and acid oxtractable organic compounds (BNAs; EPA 8270), TCL pesticides and PCBs (EPA 8080), TRPHs (EPA 418.1), Target Analyte List (TAL) metals (total [i.e., unfiltered] and dissolvod [i.e., millipore-filtered]; EPA 6010/7060/7421/7471/7740/7841), cyanide (EPA 9010), gross alpha (EPA 900), total organic carbon (EPA 415.1), hardness (water only: EPA 130.2). and alkalinity (water only: EPA 310.1).

C = TCL VOCs, TCL BNAs, TCL pesticides and PCBs, TAL motals, radium-226. and pH as performod by CEP for radioactive soil sample P27S016A.

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

[c]Specific constituents encompassed by the various chemical groups included within analytical suite B are identified in tables 9-5 through 9-13 of tho GQAPP.

[d]Groundwater samples and analyses shown aro for temporary wells only.

[e]Groundwater samples and analyses shown are for existing permanent wells.

[f]Trip blanks analyzed for TCL VOCs only.

'Preservative blanks analyzed for dissolved TAL metals, cyanide, TRPHs, and TCL VOCs.

Source: Ecology and Environnont, Inc., 1991.

organic vapor concentration in the soil. In addition, a carbon filter was attached to the OVA to screen each sample for the presence of methane. Equipment decontamination was performed in accordance with Section 6.10 of the GQAPP.

2.9 SOIL BORINGS AND TEHPORARY HONITORING WELL INSTALLATION

A total of 20 soil borings and five temporary monitoring wells were completed at Site 27 (see Figure 2-1), rather than the proposed sixteen soil borings and four temporary monitoring wells. After the completion of the first 16 borings at the site, sanitary sewer manholes K-6 and K-7, as well as the sanitary sewer line, were located by the NAS Pensacola Public Works Department surveyors and found to be approximately 85 feet north of former Building 709, rather than 20 feet north of the building foundation as previously identified. Consequently, the site area was extended north and east in order to include the sewer line. The survey grid was also expanded by 50 feet to the north and east, and surface emission and radiation surveys were conducted on the new grid areas. Four additional borings and one additional temporary monitoring well were completed along the sewer line and immediately adjacent to manholes K-6 and K-7 on August 26 and 27, 1991 (see Figure 2-1).

Sampling area radiation monitoring was conducted prior to sampling, in accordance with Section 6.3.7 of the GQAPP. At each boring location, samples were collected by compositing soils over 5-foot depth intervals from land surface to the water table. Each 5-foot depth interval was assigned a letter designation as follows: A interval = surface to 5 feet below land surface (BLS); B interval = 5 to 10 feet BLS; C interval = 10 to 15 feet BLS; and so on to the water table. Samples were collected using either hand-operated bucket augers or a solid-stem auger powered by a drill rig. Lithologic characteristics of the materials encountered in each borehole were recorded in the field logbook. All soil sampling, compositing, and lithologic logging activities were performed in accordance with Section 6.6 of the GQAPP.

Temporary, stainless steel monitoring wells were installed in five of the 20 borings (see Figure 2-1). Each well was constructed with 5 feet of 0.01-inch slot, continuous wire-wound, stainless steel screen

and installed to a depth that allowed the well screen to bracket the water table. The wells were installed using either a hand-operated bucket auger or 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.

2.10 SOIL SAMPLING

Seventy-four soil samples, plus three duplicate samples, were collected as described in Section 2.9, in accordance with Section 6.6.2 of the GQAPP. Soil samples were shipped to E & E's ASC and analyzed for the screening parameters listed in Table 2-2. In addition, a split sample from each soil sample interval was collected and sent to CEP and analyzed for radium-226. Each sample was screened for radiation prior to shipment using a Bicron Surveyor-M ratemeter or an ESP-2 gamma scintillator with an attached NaI probe. In addition, because of high radiation levels detected during sample collection, soil sample P27S016A was shipped to CEP and analyzed for the TAL/TCL parameters listed in Table 2-2.

2.11 GROUNDWATER SAMPLING

2.11.1 Temporary Monitoring Wells

Five groundwater samples, plus one duplicate sample, were collected from the five temporary monitoring wells shown on Figure 2-1. Weather conditions; water levels; turbidity descriptions; 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 vas checked for the presence of floating and/or sinking immiscible hydrocarbons using a Solinst oil-vater interface probe. Each groundwater sample was collected immediately following well purging. All well purging and sampling activities vere 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. Each sample was screened for radiation prior to shipment using a Bicron Surveyor-H ratemeter or an ESP-2 gamma scintillator vith an attached NaI

probe. All groundwater samples collected from the temporary monitoring wells were shipped to E & E's ASC and analyzed for the screening parameters listed in Table 2-2. Split groundwater samples were collected from each well and shipped to CEP for radium-226 and gross alpha radioactivity analyses.

2.11.2 Existing Permanent Monitoring Vells

Two groundwater samples, plus one duplicate sample, were collected from the two existing permanent monitoring wells located on Site 27 (see Figure 2-1). Weather conditions; water levels; turbidity descriptions; purge volumes; and groundwater pH, specific conductance, and temperature measurements were recorded in the field logbook prior to sampling. Each groundwater sample was collected immediately following well purging. All well purging and sampling activities were performed in accordance with sections 6.8 and 6.11 of the GQAPP. Equipment decontamination was performed in accordance with Section 6.10 of the GQAPP. All groundwater samples collected from the existing wells were shipped to E & E's ASC and analyzed according to U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) protocol for the TAL/TCL and other parameters listed in Table 2-2. Radium-226 and gross alpha radioactivity analyses were performed by CEP.

2.12 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 determination of water level elevations in both the temporary monitoring wells and the existing permanent monitoring wells.

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 200 feet west of the site, near the north corner of Building 649.

Wellhead TOC elevations and static water levels measured in each existing permanent well were referenced directly to the USGS MSL datum. Static water levels in the permanent monitoring wells were measured prior to sampling on June 26 and 27, 1991, and again on August 1, 1991. The static water levels in four of the temporary wells were measured on June 24, 25, and 28, 1991, and in one additional temporary well on August 27, 1991. The water level measured in the shallow, permanent monitoring well (GMO2) and the water levels measured in the temporary monitoring wells were used to determine the water table elevation, groundwater flow direction, and horizontal hydraulic gradient for the shallow surficial zone of the Sand-and-Gravel Aquifer in the site vicinity.

2.13 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.

2.13.1 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.

2.13.2 Decontamination Procedures

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

2.14 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 into the well following collection of samples.

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

3. RESULTS

3.1 AERIAL PHOTOGRAPH AND EXISTING DATA ANALYSIS

The review of aerial photographs and existing data available for Site 27 indicated various changes throughout the history of the site. These changes include the dismantling of Building 709 in 1976.

Dated November 30, 1942, a detailed plan drawing of the interior of Building 709 and the associated utilities shows the locations of the present sanitary sewer line and the associated manholes (K-6 and K-7). The 6-inch sewer line that connects Building 709 to the existing sewer line at manhole K-7 is shown on this drawing (see Figure 1-2). Another drawing, also dated November 30, 1942, is titled "Plumbing Plans" and shows the interior distribution of the sewer system in Building 709.

Drawings dated April 12, 1948, show the interior layout of the first floor of Building 709. A carburetor shop, which included a degreaser and a cleaning tank, was located in the northwest corner of the building (see Figure 1-2). An auxiliary shop and a propeller shop were located in the northeast corner of the building. An electrical shop was located in the southwest corner, and a plating shop was located in the southeast corner. A paint shop, where radium-containing paint might have been used, was located in the north-central portion of the building. An instrument shop and a radio shop were located in the south-central portion of the building. It is uncertain whether the instrument or radio shop was associated with radium dial instruments. Figure 1-2 shows the locations of some of these key areas on the site and the path of the sanitary sewer system beneath these areas.

A plan drawing dated November 18, 1948, shows the location of a radium paint room/equipment building south of the southeast corner of Building 709 (see Table 2-1 and Figure 1-2).

Review of the January 22, 1951, aerial photograph of the site indicated that the radium dial shop (Building 709) was present. The area immediately surrounding the building appeared to be covered with grass and perhaps some concrete sidewalks. Murray Road and Farrar Road, located west and south of the site, respectively, were paved.

The October 12, 1961, aerial photograph reveals the presence of several small features, possibly drums or transformers, located south of the building near the center of the south wall. No staining or evidence of spills from these objects was noted. These objects are present south of the building through the 1976 aerial photographs. The October 8, 1964, aerial photograph indicates that the grassy area south of Building 709 appears to have bare places. It is uncertain whether this is indicative of stressed vegetation or the areas are merely worn from pedestrian or vehicle traffic. No stains or spills were noted.

Review of the April 28, 1976, aerial photograph indicated that the southwest corner of the building is either white from repainting or resurfacing or has been removed from the rest of the building. The entire building is no longer present in the March 6, 1981, aerial photographs, confirming the previous report that the building was dismantled in 1976. The small objects located south of the building are no longer present at the site in the 1981 or subsequent photographs. However, two small structures that are located in the present locations of two transformers or electrical boxes at the site appear in the photographs after the building was dismantled. It is not known where the building debris was disposed of.

No other obvious changes were noted at the site in the aerial photographs reviewed. No obvious visual evidence of leaks or spills of radioactive contaminants was noted around the building.

3.2 SITE RECONNAISSANCE

During the site reconnaissance, visual inspections were performed on and around the foundation of former Building 709 and the associated sanitary sewer line (see Figure 1-2). The building foundation is made of concrete and rises approximately 1 foot above the ground surface on the western end and approximately 5 feet above the ground surface on the eastern end. The concrete floor of former Building 709 is currently

used as a parking area. The areas north, east, and west of the foundation are also used for parking and are mostly asphalt-paved or covered with shell fragments. The area south of the building foundation is mostly grass-covered with a few concrete slabs near the eastern end. Two transformers or electrical boxes, known as structures 2622 and 2621, are located on concrete pads south of the building foundation. No leaks or spills were noted around the base of these structures.

Two permanent, existing monitoring wells, GH02 and GM54, are located near the northeast corner of the building foundation. These wells appeared to be intact.

Unlabeled manhole covers located east and north of the foundation were later confirmed by the NAS Pensacola Public Works Department as manholes K-6 and K-7 of the sanitary sewer system. Manhole N-4 was located just south of Farrar Road, southeast of the site, and manhole N-5 was located east of former Building 709 and just north of Building 741. The sanitary sewer system west of the site services the area associated with buildings 648 and 649, west of Murray Road.

Several other buildings are located near the Building 709 foundation. Building 741, located east of the site, currently houses a 250-kilovolt X-ray tube used to inspect welding material, as well as to perform failure analyses. The X-ray room is in the center one-third of the building. No radioactive wastes are generated here (Joyner 1991). A 55-gallon drum marked "waste paint and solvent" was located northwest of Building 741, approximately 40 feet east of Site 27. This drum was on a wooden pallet and cordoned off with red tape. No evidence of spi1lage or leakage was evident in this area. A storage shed, Building 1960, is located approximately 70 feet southeast of the foundation of Building 709. Building 709D, located along the eastern edge of the site, is used for general storage. An HNu air monitoring device and a Hini-Rad radiation monitor vere used to monitor air quality and radiation during the site reconnaissance. No organic vapor concentrations or radiation levels were detected with the HNu or the radiation alert dosimeter.

3.3 SURFACE EMISSIONS SURVEY AND PARTICULATE AIR SCREENING

An OVA was used to monitor surface emissions for each grid node at

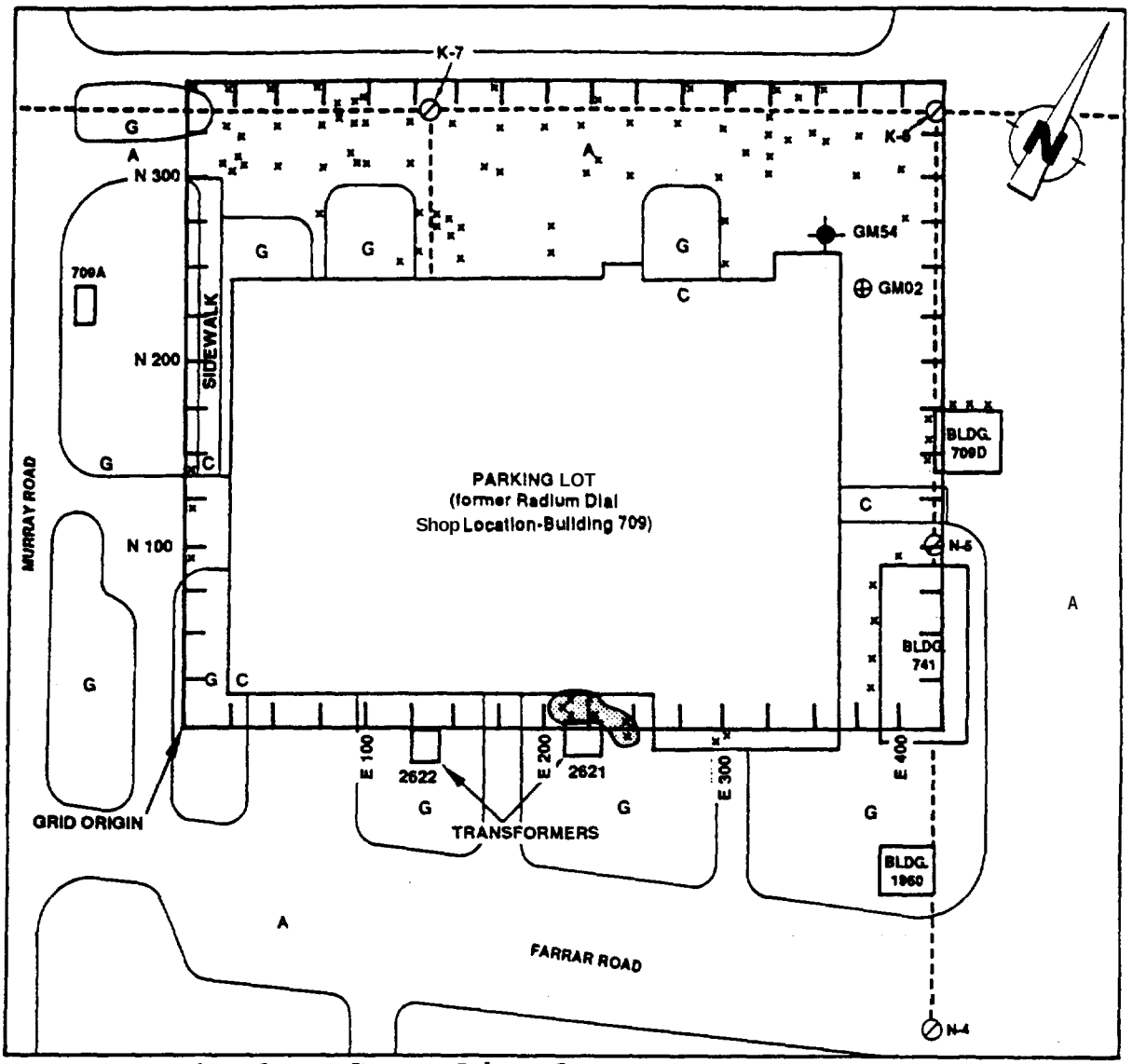
Site 27. Appendix A contains the grid coordinates and corresponding OVA surface emissions readings. Figure 2-2 shows the grid layout of the site. The background reading on the OVA was 3.2 parts per million (ppm) during the survey conducted in June and 1.0 ppm during the supplemental survey conducted in August. Only five readings above background were recorded for the site during the surface emissions surveys. The highest reading, 3 ppm above background, was detected with the OVA at grid node N0+00, E3+00. All other readings above background were less than 2 ppm.

On June 5, 1991, a Mini-Ram particulate air monitoring device was used to determine if Site 27 could represent a source of particulates in the air. During the test, the wind was from the southeast at 3 to 5 miles per hour. The Mini-Ram was placed upwind (UW) near the southeast corner of the site. After a period of 5 minutes, the time weighted average (TWA) of particulates was 0.17 milligram per cubic meter (mg/m^3). The Mini-Ram was then placed downwind (DW) near the northwest corner of the site, approximately 450 feet from the upwind location. After 5 minutes, the TWA was recorded as 0.14 mg/m^3. Figure 2-1 shows the upwind and downwind locations of the particulate air screening survey. Based on these results, Site 27 does not appear to be a source of particulates in the air. Appendix B presents the results of the particulate air screening conducted at Site 27.

3.4 RADIATION SURVEY

The radiation survey was conducted for the original survey grid during June 1991; however, the supplemental survey was performed in August 1991. The area north of N3+00 and east of E3+75 was surveyed in August. During the June survey, all radiation readings that were at least 2 times background in between grid nodes were recorded. Because the asphalt-covered areas throughout the site had radiation readings at least 2 times background during the August survey, only those readings 3 times background were recorded in between the grid nodes in August (see Figure 3-1).

The background radiation readings during the radiation survey at Site 27 were measured near Building 1754, which is approximately 1 mile southeast of Site 27. Background gamma radiation levels for NAS Pensacola during the radiation survey at Site 27 ranged from



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

SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	------	Sanitary Sewer Line
C	Concrete-Paved Area	⊕	Existing Permanent Shallow Monitoring Well
G	Grass-Covered Area	┼	Existing Permanent Deep Monitoring Well
⊘	Sanitary Sewer Manhole	GM02	Permanent Monitoring Well Number
K-7/N-4	Manhole Numbers		Survey Grid Boundary
BLDG. 709D.	Building	×	Elevated Radiation Readings
			Area with Highest Radiation Levels

Figure 3-1 RADIATION SURVEY MAP — NAS PENSACOLA SITE 27

approximately 23,300 dpm to 26,700 dpm with the ESP-2 gamma scintillator 1 meter above the ground surface and 26,700 dpm to 27,300 dpm at the ground surface. The background gamma radiation level detected using the Bicron Microanalyst was 1.0 μR/hr. Appendix C lists the gamma radiation levels for each grid node, as well as any above background levels detected between grid nodes. For the purpose of this report, elevated radiation levels will be those readings at least 2 times background. Figure 3-1 shows the areas where elevated radiation levels were detected by at least one of the survey instruments. A few elevated readings were detected just outside of the grid boundary and are also shown on Figure 3-1.

The ESP-2 readings at 1 meter above the surface were generally slightly lower than the ESP-2 surface readings, indicating more localized radiation levels rather than widespread. The elevated ESP-2 readings at 1 meter and the Microanalyst readings generally correspond with elevated ESP-2 surface readings. The highest and therefore most significant radiation readings were detected with the ESP-2 at the ground surface. Therefore, for discussion purposes, the results of the survey will be those detected with the ESP-2 at the ground surface.

As many as 85 elevated radiation levels were detected at the site. Many of these readings occurred along the northern grid boundary from N3+00, E0+25 to N3+50, E3+75. One area of elevated readings was detected just north of the building foundation in the grid block from N2+50 to N2+75 and E1+25 to E1+50. As many as 10 elevated readings, ranging from approximately 57,000 dpm to 103,000 dpm at the ground surface, were detected in this portion of the grid. This area, as well as most of the northern portion of the grid, is predominantly asphalt-paved. The asphalt contains rock fragments that may include naturally occurring radioactive minerals; therefore, these elevated readings are probably the result of the radioactive minerals contained in the asphalt and not the result of any spill of radioactive wastes at the site.

The highest radiation levels were detected south of the building foundation near the grid blocks from N0+00 to N0+25 and from E2+00 to E2+50 (see Figure 3-1). These readings ranged from 70,000 dpm to 653,000 dpm at the ground surface. Radiation levels as high as 25 times the normal background were detected at the ground surface in this

portion of the grid using the ESP-2. Because this area is covered by grass and soil and there is no asphalt in this area, a high probability exists that radioactive materials have been released at this location.

3.5 HYDROLOGIC ASSESSMENT

3.5.1 Shallov Subsurface Lithology

Based on information collected during the completion of the 20 soil borings, the shallow subsurface lithology beneath Site 27 can be generally characterized as light brown to tan, medium- to coarse-grained quartz surficial sand that becomes pale tan to cream, medium- to coarse-grained quartz sand near the water table. Most of the borings north of the building foundation contained a thin layer of reddish-brown, silty, sandy, clayey fill material in the upper 6 inches of soil, Appendix D presents the lithologic logs for the 20 soil borings completed at Site 27. The OVA readings taken in the open boreholes during drilling ranged from 0 to 980 ppm. The OVA open borehole headings are also presented in Appendix D.

3.5.2 Vater Levels and Groundvater Flov

Table 3-1 lists the water level elevations measured in the temporary and permanent monitoring wells at Site 27. Based on the water levels obtained from the temporary monitoring wells and shallov, permanent monitoring well GMO2, the depth to the water table across the site ranged from approximately 14 to 17 feet BLS during well installation and groundwater sampling.

Figure 3-2 presents 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 27, based on temporary monitoring well and shallov, permanent monitoring well data. Based on these groundwater elevations, the direction of shallow groundwater flow is to the east, and the horizontal hydraulic gradient is approximately 0.006. Although the water levels in the monitoring wells (except TWO17) at Site 27 were measured over a 5-day period and temporary monitoring well TWO17 was measured almost two months after the other wells were measured, these measurements are believed to generally reflect prevailing conditions in the area. This belief is based on the relatively uniform hydraulic

Table 3-1

TEMPORARY AND PERMANENT MONITORING WELL CONSTRUCTION INFORMATION AND WATER LEVEL ELEVATIONS NAS PENSACOLA SITE 27

Well Number	Total Depth (BLS)	Depth to Water (BLS)	Depth to Water BTOC	TOC Elevation	water Level Elevation	Date Measurod
TW003[a]	18.98	15.54	16.56	25.53	8.97	6/28/91
TW008	19.48	15.78	16.38	25.66	9.28	6/28/91
Two10	19.02	16.12	11.44	26.24	8.80	6/24/91
TW015	16.90	15.47	11.51	25.09	1.52	6/25/91
TWO17	16.16	15.13	19.21	28.18	8.91	8/27/91
GM02[b]	20.2	14.32	16.69	24.26	1.51	6/27/91
GM54[c]	114.5	20.48	20.99	23.34	2.35	6/26/91

14[NASP]UH8027:T0360/591/22

Notes:

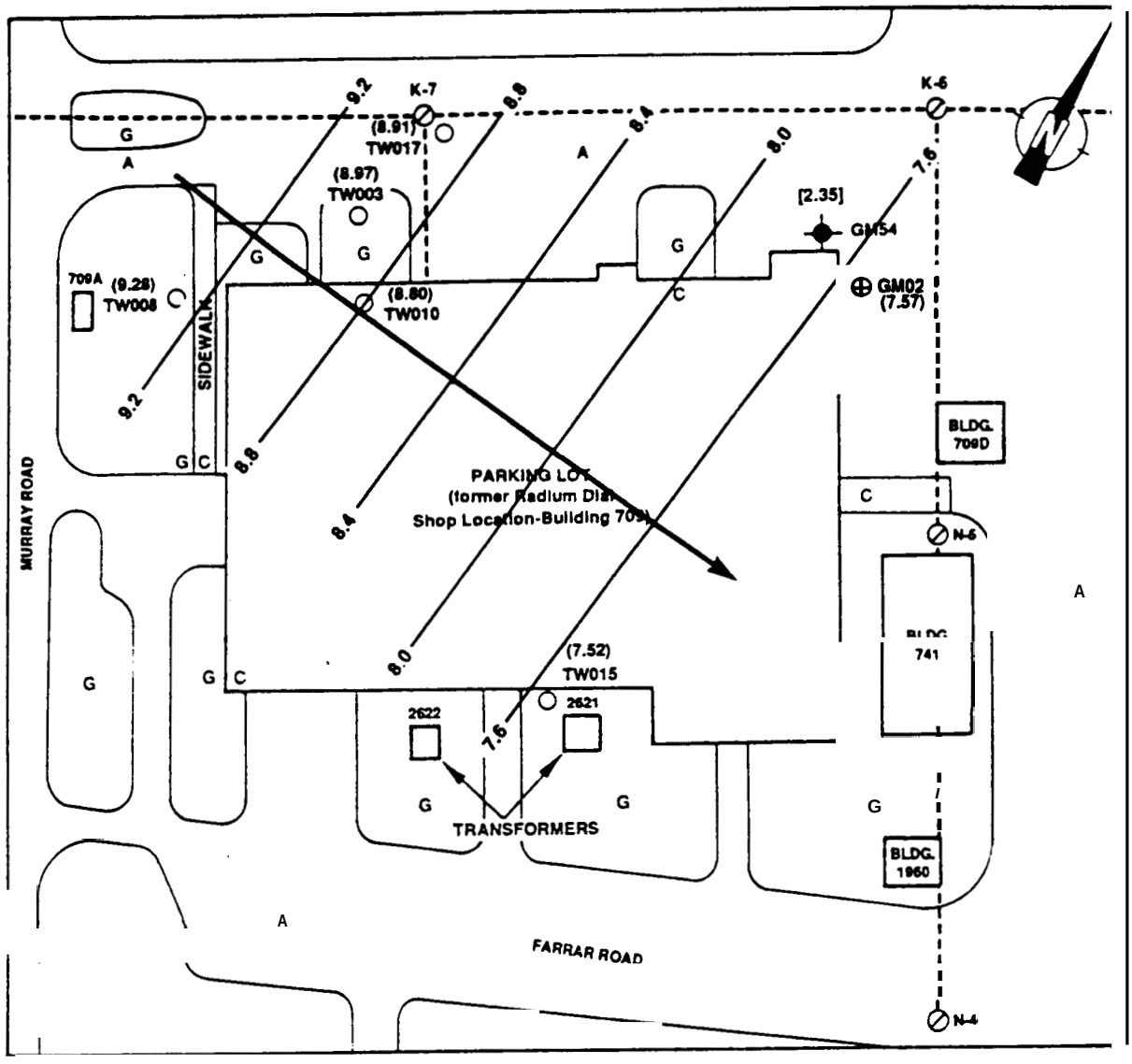
All depths are in feet; all elevations are in feet referenced to mean sea level; a11 temporary wells were constructrd of 2-inch diameter stainless steel with 5 feet of 0.01-inch scroon: a11 permanent wells were constructed of 2-inch diameter PVC; the permanent shallow well was constructod with 2.5 feet of 0.01-inch screen: and the permanent deep well was constructed with 5 feet of 0.01-inch screen.

Key:

[a]TW signifies a temporary monitoring well.
[b]GM signifies a permanent monitoring well.
[c]Deep well.

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

Source: Ecology and Environmont, Inc., 1991.



SOURCE: U.S.Nava' Air Station, Pensacola, Florida 1991; Ecology ana Environment, Inc. 1991

SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	GM02	Permanent Monitoring Well Number
C	Concrete-Paved Area	○	Temporary Monitoring Well
G	Grass-Covered Area	TW003	Temporary Monitoring Well Number
⊘	Sanitary Sewer Manhole	(9.28)	Surficial Zone Water Level Elevation (feet above MSL)
K-7/N-4	Manhole Numbers	—9.0—	Surficial Zone Water Level Elevation Isopleth (feet above MSL)
BLDG. 709D	Building	[2.35]	Main Producing Zone Water Level Elevation (feet above MSL)
✦	Existing Permanent Deep Monitoring Well	→	Groundwater Flow Direction
⊕	Existing Permanent Shallow Monitoring Well		

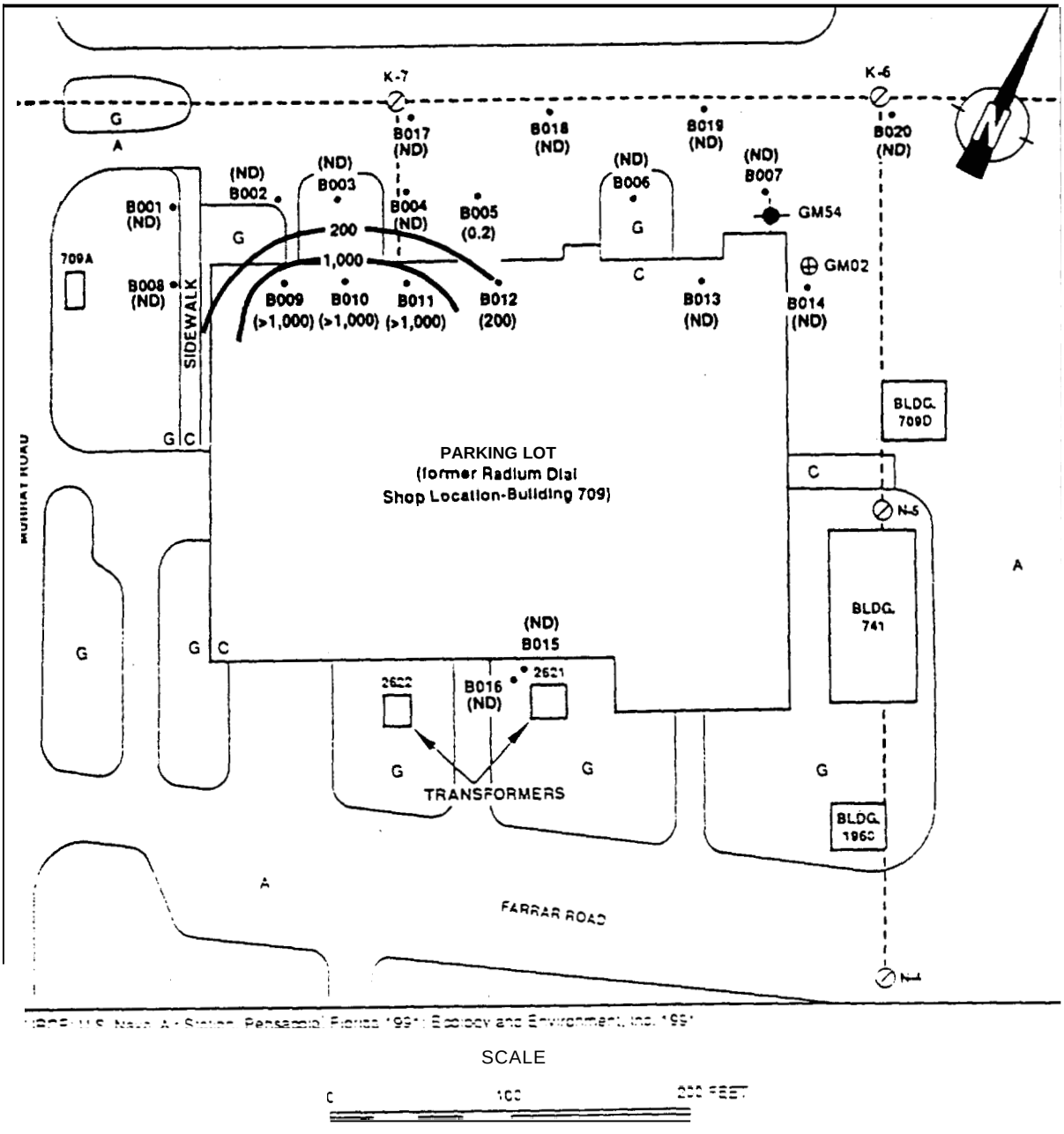
Figure 3-2 WATER LEVEL ELEVATIONS FOR TEMPORARY AND PERMANENT MONITORING WELLS — NAS PENSACOLA SITE 27

gradient measured across the site and the fact that the easterly direction of shallow groundwater flov is consistent with the east and southeast flow directions determined for sites 25, 30, and 31, which are all located within about 500 feet of Site 27. The direction of shallow groundwater flow at Site 27 appears to be controlled by discharge into a small creek and paved ditch located approximately 1,500 feet east of the site.

The water level elevation in deep, permanent monitoring well GM54, open to the upper portion of the main producing zone of the Sand-and-Gravel Aquifer, is 2.35 feet above MSL. This water level elevation is 5.22 feet lower than the water level elevation in adjacent shallow well GM02. The resultant vertical hydraulic gradient downward between the upper portion of the surficial zone and the upper portion of the main producing zone is approximately 0.055. This hydraulic gradient indicates that a significant potential for downward flow from the surficial to the main producing zone exists at Site 27. This condition is believed to exist across most of NAS Pensacola except in areas of lower surface elevation (i.e., less than 10 feet above HSL).

3.6 SOIL HEADSPACE SURVEY

The results of the soil headspace survey conducted during drilling indicated that 14 sample locations had elevated OVA readings. Appendix E presents the filtered and unfiltered headspace readings for the Site 27 headspace survey. Where the unfiltered readings were 0 ppm, no filtered readings were taken. Figure 3-3 shows the boring locations where the headspace samples were collected and the deep-interval, unfiltered headspace reading for each boring. Samples S005C, S005D, S009A, S009B, S009C, S011A, S011B, S012C, S013A, and S014B had OVA readings of less than 1.0 ppm. Samples S009D, S0010D, and S011D had OVA readings of greater than 1,000 ppm in the unfiltered mode and less than 1.0 ppm in the filtered mode. Sample S012D had an unfiltered OVA reading of 200 ppm and a filtered reading of less than 1.0 ppm. The lower, filtered readings indicate a non-methane source of organic vapors in the soil headspace samples. Generally, the higher headspace readings



KEY:

A	Asphalt-Paved Area		Existing Permanent Deep Monitoring Well
C	Concrete-Paved Area	OM02	Permanent Monitoring Well Number
G	Grass-Covered Area	•	Soil Boring
	Sanitary Sewer Manhole	B001	Soil Boring Number
K-7/N-4	Manhole Numbers	(>1,000)	Unfiltered OVA Headspace Reading In Deep Interval (ppm)
09 D	Building	200	OVA Headapace Concentration Isopleth (ppm)
⊕	Existing Permanent Shallow Monitoring Well	(ND)	Not Detected

Figure 3-3 SOIL HEADSPACE CONCENTRATIONS DETECTED IN DEEP INTERVAL — NAS PENSACOLA SITE 27

were detected in the samples collected at greater depths (10 to 15 or 15 to 20 feet BLS) from borings located in the northern portion of the site in the vicinity of the former carburetor shop. As will be discussed in the following sections, the areas of elevated soil headspace readings also correlate with elevated soil and/or groundwater contamination at the site.

3.7 CHEMICAL ANALYSES

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

3.7.1 Sediment

Table 3-2 summarizes the radiochemical and analytical screening results for sediment sample SD001, collected from manhole K-6 (see Figure 2-1). Appendix F presents the complete radiochemical results for the sediment sample collected, and Appendix G presents the complete analytical screening results for the sediment sample. No duplicate sediment sample was collected due to the lack of sufficient sediment in manhole K-6. Because the sediment sample collected at Site 27 had a relatively low water content, it was treated as a soil sample by CEP and analyzed on a wet-weight basis. Table 3-2 also presents the Resource Conservation and Recovery Act (RCRA) Proposed Corrective Action Levels (PCALs) for soil contamination (EPA 1990b).

The sediment sample was also analyzed for pH by E & E's ASC. The pH value for the sediment sample was 7.9. This value is considered to be within normal, expected ranges and is not considered hazardous under RCRA (EPA 1990b).

Generally, the analysis of sediment sample SD001 revealed relatively low levels of radium-226, metals, total recoverable petroleum hydrocarbons (TRPHs), and polynuclear aromatic hydrocarbons (PAHs). No volatile organic compounds (VOCs), phenols, pesticides, or polychlorinated biphenyls (PCBs) vere detected.

Table 3-2

SUMMARY ANALYTICAL SCREENING RESULTS FOR SEDIMENT SAMPLE
NAS PENSACOLA SITE 27
(All results in mg/kg, unless noted)

Parameter	Detection Limit	Sample Number (Location) P27SD001 (SD001)	PCAL[a]
Radium-226 (pCi/g)	0.5	0.2±0.05	
Chromium	1.0	4.2	4×10^2
Zinc	2.0	32	1.6×10^4
Load	4.0	23	
Cadmium	0.5	1.3	4×10^1
Copper	2.5	6.3	2.5 X 103
TRPHs	5	11	
Total PAHs as Benzo-a-pyrene (µg/kg)	1,000	(L)	
pH (units)	NA	1.9	

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Key:

PCAL = RCRA Proposed Corrective Action Level.

NA = Not Applicable

[a]RCRA PCAL tor chromium is for hexavalent chromium.

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

Source: Ecology and Environment, Inc., 1991.

Radiochemistry

Radium-226 was detected at a moderately low level (0.2±0.05 picocuries per gram [pCi/g]) in sediment sample SD001. Currently, no regulations exist regarding radium-226 concentrations in sediment; however, the radium-226 results can be compared to the soil regulations. The EPA maximum contaminant level (MCL) for radium-226 in soil is 5 pCi/g in the upper 15 centimeters (cm; 0.5 foot) of soil and 15 pCi/g below 15 cm (EPA 1990a). The radium-226 concentration in sediment sample SD001 is well below both these MCLs.

Metals

Low concentrations of metals were detected in sediment sample SD001. Zinc and lead were detected at the highest concentrations, 32 milligrams per kilogram (mg/kg) and 23 mg/kg, respectively. Copper was detected at a concentration of 6.3 mg/kg. Chromium was detected at 4.2 mg/kg and cadmium at 1.3 mg/kg. These relatively low concentrations of metals are far below the RCRA PCALs for soils.

TRPHs and PAHs

TRPHs in the sediment sample were detected at a relatively low concentration (11.0 mg/kg). PAHs were present below the detection limit of 1,000 micrograms per kilogram (ug/kg) but were not quantifiable. 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.

3.7.2 Soil

Table 3-3 summarizes the radiochemical and analytical screening results for the soil samples collected at Site 27. Because sample S016A exhibited gamma radiation levels greater than 2 times background using the ESP-2 gamma scintillator, it was sent to CEP for TAL/TCL analyses. Table 3-4 summarizes the TAL/TCL results for soil sample S016A. Tables 3-3 and 3-4 also present the RCRA PCALs for soil contamination (EPA 1990b).

Figure 2-1 shows the boring locations where the soil samples were collected. The complete radiochemical results for the soil samples are

Table 3-3

SUMMARY ANALYTICAL SCREENING RESULTS FOR SOIL SAMPLES
NAS PENSACOLA SITE 27
(All results in μg/kg, unless noted)

Parameter	Detection Liait	Sample Number (Location and Depth Interval)								PCAL[a]
		P27S001A (B001A)	P27S001B (B001B)	P27S001C (B001C)	P27S001D (B001D)	P27S002A (B002A)	P27S002B (B002B)	P27S002C (B002C)	P27S002D (B002D)	
Radium-226 (pCi/g)	0.5	--	--	--	--	--	--	--	0.4±0.2	
Arsenic (mg/kg)	6.0	--	--	--	--	--	--	7.7	--	8×10^{1}
Chromium (mg/kg)	1.0	1.4	1.3	--	--	1.6	1.1	--	--	4×10^{2}
Zinc (mg/kg)	2.0	2.7	--	--	--	5.5	--	--	--	1.6×10^{4}
Lead (mg/kg)	4.0	--	--	6.4	--	8.7	--	--	--	
Cadmium (mg/kg)	0.5	--	--	--	--	--	--	--	--	4×10^{1}
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	--	2×10^{3}
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--	2.5×10^{3}
TRPHs (mg/kg)	5.0	17	13	14	51	63	6.2	--	--	
Toluene	1,000	--	--	--	--	--	--	--	--	2×10^{7}
Ethylbenzene	1,000	--	--	--	--	--	--	--	--	8×10^{6}
Total Xylenes	1,000	--	--	--	--	--	--	--	--	2×10^{8}
Chlorobenzene	1,000	--	--	--	--	--	--	--	--	2×10^{6}
Total PAHs as Benzo-a-pyrene	1,000	--	--	--	--	--	--	--	--	
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	--	
pH (units)		7.8	7.8	7.8	7.9	7.9	5.7	7.2	7.6	

14[NASP]UH8027:T0360/762/0

Key at end of table.

Table 3-3 (Coat.)

Parameter	Dotoction Limit	Sample Number (Location and Dopth Interval)								PCAL[a]
		P27S003A (B003A)	P27S003B (B003B)	P27S003C (B003C)	P27S003D (B003D)	P27S004A (B004A)	P27S004B (B004B)	P27S004C (B004C)	P27S004D (B004D)	
Radium-226 (pCi/g)	0.5	--	--	--	--	0.2±0.1	--	--	--	
Arsonic (mg/kg)	6.0	--	--	--	--	--	--	--	--	0×10^{1}
Chromium (mg/kg)	1.0	3.3	--	1.1	--	2.3	1.1	--	--	4×10^{2}
Zinc (mg/kg)	2.0	5.0	--	--	--	10	--	--	4.1	1.6×10^{4}
Lead (mg/kg)	4.0	5.4	--	--	--	--	--	--	--	
Cadmium (mg/kg)	0.5	--	--	--	--	--	0.56	--	--	4×10^{1}
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	--	$2 \times 10^{-}$
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--	2.5×10^{3}
TRPHs (mg/kg)	5.0	29	6.4	8.2	--	12	--	7.3	--	
Toluene	1,000	--	--	--	--	--	--	--	--	2×10^{7}
Ethylbenxone	1,000	--	--	--	--	--	--	--	--	8×10^{6}
Total Xylenes	1,000	--	--	--	--	--	--	--	--	2×10^{8}
Chlorobenzene	1,000	--	--	--	--	--	--	--	--	2×10^{6}
Total PAHs as Benzo-a-pyrene	1,000	--	--[b]	--	--	--	--	--	--	
Phenols as Trichlorophonol	2,000	--	--	--	--	--	--	--	--	
pH (units)		8.0	8.0	7.6	1.7	4.6	4.3	4.4	6.4	

14[NASP]UH8027:T0360/762/0

Key at end of table

Table 3-3 (Cont.)

Parameter	Dotoction Limit	Sample Number (Location and Depth Interval) P27S005A (B005A)	P27S005B (B005B)	P27S005C (B005C)	P27S005D (B005D)	P27S006A (B006A)	P27S006B (B006B)	P27S006C (B006C)	P27S006D (B006D)	PCAL[a]
Radium-226 (pCi/g)	0.5	--	--	0.24±0.13	--	--	--	--	--	
Arsonic (mg/kg)	6.0	--[c]	--[c]	--[c]	--[c]	--[c]	--[c]	--[c]	9.0[c]	8×10^{1}
Chromium (mg/kg)	1.0	1.8	--	--	--	1.2	--	--	--	4×10^{2}
Zinc (mg/kg)	2.0	3.1	--	2.1	--	3.7	--	--	--	1.6×10^{4}
Load (mg/kg)	4.0	--	11	--	--	9.7	--	4.6	--	
Cadmium (mg/kg)	0.5	0.57	--	--	--	--	--	--	--	4×10^{1}
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	--	2×10^{3}
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--	2.5×10^{3}
TRPHs (mg/kg)	5.0	--	--	--	--	--	--	--	--	
Toluene	1,000	--	--	--	--	--	--	--	--	2×10^{7}
Ethylbenzene	1,000	--	--	--	--	--	--	--	--	8×10^{6}
Total Xylenes	1,000	--	--	--	--	--	--	--	--	2×10^{8}
Chlorobenzene	1,000	--	--	--	--	--	--	--	--	2×10^{6}
Total PAHs as Benzo-a-pyrene	1,000	(L)	--	--	--	--	--	--	--	
Phenols as Trichlorophonol	2,000	--	--	--	--	--	--	--	--	
pH (units)		8.5	8.5	8.7	8.5	8.2	8.7	8.6	a.3	

14{NASP]UH8027:T0360/762/0

Key at ond of table.

Table 3-3 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)								PCAL[a]
		P27S007A (B007A)	P27S007B (B007B)	P27S007C (B007C)	P27S008A (B008A)	P27S008B (B008B)	P27S008C (B008C)	P27S008D (B008D)	P27S009A (B009A)	
Radium-226 (pCi/g)	0.5	--	--	--	0.21±0.01	--	--	--	--	
Arsenic (mg/kg)	6.0	--	--	--	--	--	--	--	12	8×10^{1}
Chromium (mg/kg)	1.0	1.3	--	--	2.2	1.6	1.1	--	1.4	4×10^{2}
Zinc (mg/kg)	2.0	--	--	--	3.5	2.0	--	--	--	1.6×10^{4}
Lead (mg/kg)	4.0	--	--	--	--	--	--	--	--	
Cadmium (mg/kg)	0.5	--	--	--	--	--	--	--	--	4×10^{1}
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	--	2×10^{3}
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--	2.5×10^{7}
TRPHs (mg/kg)	5.0	--	--	--	12	40	39	49	--	
Toluene	1,000	--	--	--	--	--	--	--	--	2×10^{7}
Ethylbenzene	1,000	--	--	--	--	--	--	--	--	8×10^{6}
Total Xylenes	1,000	--	--	--	--	--	--	--	--	
Chlorobenzene	1,000	--	--	--	--	--	--	--	--	2×10^{6}
Total PAHs as sonso-a-pyrone	1,000	--	--	--	--	--	--	--	--	
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	--	
pH (units)		8.0	8.4	8.5	6.9	6.8	6.7	7.2	7.7	

14[NASP]UH8027:T0360/762/0

Key at end of table.

Table 3-3 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)								PCAL[a]
		P27S009B (B009B)	P27S009C (B009C)	P27S009D (B009D)	P27S010A (B010A)	P27S010B (B010B)	P27S010C (B010C)	P27S010D (B010D)	P27S011A (B011A)	
Radium-226 (pCi/g)	0.5	--	--	--	--	--	0.4±0.2	--	--	
Arsenic (mg/kg)	6.0	10	--	--	13	--	9.6	--	--	8×10^{1}
Chromium (mg/kg)	1.0	1.5	--	--	--	--	--	--	1.1	4×10^{2}
Zinc (mg/kg)	2.0	--	--	--	--	--	--	--	--	1.6×10^{4}
Lead (mg/kg)	4.0	--	--	--	--	--	--	--	--	
Cadmium (mg/kg)	0.5	--	--	--	--	--	--	--	--	4×10^{-1}
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	--	2×10^{3}
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--	2.5×10^{3}
TRPHs (mg/kg)	5.0	7.0	12	7.0	--	120	11	8,700	--	
Toluene	1,000	--	--	--	--	--	--	(L)[d]	--	2×10^{7}
Ethylbenzene	1,000	--	--	--	--	--	--	(L)[d]	--	8×10^{6}
Total Xylenes	1,000	--	--	--	--	--	--	47,000[d]	--	2×10^{8}
Chlorobenzene	1,000	--	--	--	--	--	--	--[d]	--	2×10^{6}
Total PAHs as Benzo-a-pyrone	1,000	--	--	--	--	--	--	2,100	--	
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	40,000	--	
pH (units)		5.6	5.4	7.0	7.3	7.6	5.9	7.7	1.5	

14[NASP]UH8027:T0360/762/0

Key at end of table.

Table 3-3 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)								PCAL[a]
		P27S011B (B011B)	P27S011BD[e] (B011B)	P27S011C (B011C)	P27S011D (B011D)	P27S012A (B012A)	P27S012B (B012B)	P27S012C (B012C)	P27S012D (B012D)	
Radium-226 (pCi/g)	0.5	0.6±0.1	--	0.4±0.2	--	--	--	--	--	
Arsonic (mg/kg)	6.0	--	--	--	--	7.0[c]	--[c]	--[c]	--[c]	8×10^{1}
Chromium (mg/kg)	1.0	2.0	1.7	--	--	--	--	--	--	4×10^{2}
Zinc (mg/kg)	2.0	3.8	--	--	--	--	--	--	--	1.6×10^{4}
Lead (mg/kg)	4.0	8.6	--	--	--	--	--	--	--	
Cadmium (mg/kg)	0.5	--	--	--	--	--	--	--	--	4×10^{1}
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	--	2×10^{3}
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	--	2.5×10^{3}
TRPHs (mg/kg)	5.0	--	7.9	39	8,300	--	7.2	--	310	
Toluene	1,000	--	--	--	(L)[d]	--	--	--	--	2×10^{7}
Ethylbonzono	1,000	--	--	--	(L)[d]	--	--	--	--	8×10^{6}
Total Xylenes	1,000	--	--	--	37,000[d]	--	--	--	--	2×10^{8}
Chlorobenzene	1,000	--	--	--	(L)[d]	--	--	--	--	2×10^{6}
Total PAHs as Bonzo-a-pyrene	1,000	--	--	--	1,400	--	--	--	--	
Phenols as Trichlorophonol	2,000	--	--	--	76,000	--	--	--	--	
pH (unit)		8.0	8.4	6.0	8.5	8.8	7.8	8.3	8.5	

14[NASP]UH8027:T0360/762/0

Key at end of table.

Table 3-3 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)							PCAL[a]
		P27S013A (B013A)	P27S013B (B013B)	P27S013C (B013C)	P27S013D (B013D)	P27S014A (B014A)	P27S014AD[f] (B014A)	P27S014B (B014B)	
Radium-226 (pCi/g)	0.5	--	--	--	--	--	--	--	
Arsenic (mg/kg)	6.0	--[c]	--[c]	--[c]	9.5[c]	--	--	--	8×10^{1}
Chromium (mg/kg)	1.0	--	--	--	--	1.7	2.2	1.0	4×10^{2}
Zinc (mg/kg)	2.0	--	--	--	--	--	2.7	--	1.6×10^{4}
Lead (mg/kg)	4.0	--	--	--	--	--	--	--	
Cadmium (mg/kg)	0.5	--	--	--	--	--	--	--	--
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	2×10^{1}
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	2.5×10^{3}
TRPHs (mg/kg)	5.0	--	--	6.5	5.4	11	11	--	
Toluene	1,000	--	--	--	--	--	--	--	2×10^{7}
Ethylbenzene	1,000	--	--	--	--	--	--	--	8×10^{6}
Total Xylenes	1,000	--	--	--	--	--	--	--	2×10^{8}
Chlorobenzene	1,000	--	--	--	--	--	--	--	2×10^{6}
Total PAHs as Benzo-a-pyrene	1,000	--	1,100	--	--	--	--	--	
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	
pH (units)		5.3	5.0	6.6	7.8	8.0	8.0	7.1	

14[NASP]UH8027:T0360/762/0

Key at end of table.

Table 3-3 (Cont.)

Parameter	Detection Limit	Sample Number (Location and Depth Interval)							PCAL[a]
		P27S014C (B014C)	P27S015A (B015A)	P27S015B (B015B)	P27S015C (B015C)	P27S015D (B015D)	P27S016B (B016B*)	P27S016C (B016C)	
Radium-226 (pCi/g)	0.5	--	1.8±0.3	0.6±0.3	0.5±0.2	0.4±0.3	1.8±0.3	1.4±0.3	
Arsonic (mg/kg)	6.0	--	--	7.7	--	--	--	--	8×10^{-1}
Chromium (mg/kg)	1.0	--	10	3.7	1.7	1.1	1.5	2.4	4×10^{-2}
Zinc (mg/kg)	2.0	3.2	70	11	4.6	2.5	8.7	8.8	1.6×10^{-4}
Lead (mg/kg)	4.0	--	120	32	--	5.3	13	--	
Cadmium (mg/kg)	0.5	--	1.5	0.52	--	--	--	--	4×10^{-1}
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	2×10^{-3}
Copper (mg/kg)	2.5	--	5.8	--	--	--	--	--	2.5×10^{-3}
TRPHs (mg/kg)	5.0	45	18	16	19	9.0	13	14	
Toluene	1,000	--	--	--	--	--	--	--	2×10^{-7}
Ethylbenzene	1,000	--	--	--	--	--	--	--	8×10^{-7}
Total Xylenes	1,000	1,400	--	--	--	1,000	--	--	2×10^{-8}
Chlorobenzene	1,000	--	--	--	--	--	--	--	2×10^{-6}
Total PAHs as Benzo-a-pyrene	1,000	--	--	--	--	--	--	--	
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	
pH (units)		7.4	7.6	7.6	7.6	7.5	6.7	6.6	

14[NASP]UH8027:T0360/762/0

Key at end of table.

Table 3-3 (Cont.)

Pacameter	Detection Limit	Sample Number (Location and Depth Interval) P27S017A (B017A)	P27S017B (B017B)	P27S017C (B017C)	P27S017CD[g] (B017C)	P27S018A (B018A)	P27S018B (B018B)	P27S018C (B018C)	PCAL[a]
Radiur-226 (pCi/g)	0.5	0.26±0.11	--	--	0.2220.14	--	0.24±0.19	--	
Arsenic (mg/kg)	6.0	--	--	--	--	--	--	--	8×10^{1}
Chromium (mg/kg)	1.0	3.1	9.8	1.2	--	1.8	1.4	--	4×10^{2}
Zinc (mg/kg)	2.0	--	--	--	--	--	--	--	1.6×10^{4}
Lead (mg/kg)	4.0	--	--	--	--	--	--	--	
Cadmium (mg/kg)	0.5	--	--	--	--	--	--	--	4×10^{-1}
Nickel (mg/kg)	4.0	--	5.1	--	--	--	--	--	2×10^{3}
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	2.5×10^{3}
TRPHs (mg/kg)	5.0	--	13	270	7.1	6.5	--	--	
Toluene	1,000	--	--	--	--	--	--	--	2×10^{7}
Ethy1benzene	1,000	--	--	--	--	--	--	--	8×10^{6}
Total Xylenos	1,000	--	--	--	--	--	--	--	2×10^{8}
Chlorobenzene	1,000	--	--	--	--	--	--	--	2×10^{6}
Total PAHs as Benzo-a-pyrene	1,000	--	--	--	--	--	--	--	
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	
pH (units)		6.2	6.8	6.8	6.8	5.8	4.4	4.7	

14[NASP]UH8027:T0360/762/0

Key at ond of table.

Table 3-3 *(Coat.)*

Parameter	Detection Limit	Sample Number (Location and Depth Interval)							PCAL[a]
		P27S018D (B018D)	P27S019A (B019A)	P27S019B (B019B)	P27S019C (B019C)	P27S020A (B020A)	P27S020B (B020B)	P27S020C (B020C)	
Radium-226 (pCi/g)	0.5	--	--	--	--	--	0.2±0.1	--	
Arsenic (mg/kg)	6.0	--	--	--	--	--	--	--	8×10^{1}
Chromium (mg/kg)	1.0	--	2.2	1.3	--	2.1	1.4	--	4×10^{2}
Zinc (mg/kg)	2.0	--	--	--	--	--	2.4	--	1.6×10^{4}
Lead (mg/kg)	4.0	--	--	--	--	--	--	--	
Cadmium (mg/kg)	0.5	--	--	--	--	--	--	--	4×10^{1}
Nickel (mg/kg)	4.0	--	--	--	--	--	--	--	2×10^{3}
Copper (mg/kg)	2.5	--	--	--	--	--	--	--	2.5×10^{3}
TRPHs (mg/kg)	5.0	--	--	--	--	21	7.6	--	
Toluene	1,000	--	--	--	--	--	--	--	2×10^{7}
Ethylbenzene	1,000	--	--	--	--	--	--	--	8×10^{6}
Total Xylenes	1,000	--	--	--	--	--	--	--	[illegible]
Chlorobenzene	1,000	--	--	--	--	--	--	--	2×10
Total PAHs as Benzo-a-pyrene	1,000	--	--	--	--	--	--	--	
Phenols as Trichlorophenol	2,000	--	--	--	--	--	--	--	
pH (units)		5.5	4.7	4.3	4.6	8.4	7.9	1.7	

14[NASP]UH8027:T0360/762/5

Key at end of table.

Table 3-3 (Cont.)

14[NASP]UH8027:T0360/762/5

Note: The letter at the end of each sample and boring number denotes the depth interval below land surface: A = 0 to 5 feet, B = 5 to 10 foot, C = 10 to 15 foot, D = 15 to 20 foot, and E = 20 to 25 foot. Sample P27S016A results are presented in Table 3-4.

Key:

PCAL = RCRA Proposed Corrective Action Levels.
[a]The results for sample P27S016A are presented in Table 3-4.
[b]RCRA PCAL for chromium is for hexavalent chromium.
[c]The detection limit for this parameter increased by a factor of 2 for this sample.
[d]The detection limit for this parameter increased by a factor of 6.9 for this sample.
[e]The detection limit for this parameter increased by a factor of 20 for this sample.
[f]Duplicate of sample P27S011B.
[g]Duplicate of sample P27S014A.
[g]Duplicate of sample P27S017C.
Dash (--) indicates compound not detected.

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

Source: Ecology and Environment, Inc., 1991

Table 3-4

SUMMARY TAL/TCL ANALYTICAL RESULTS FOR
SOIL SAMPLE P27S016A
(RADIOACTIVE SAMPLE)
NAS PENSACOLA SITE 27
(All results in mg/kg, unless noted)

Paramoter	Dotection Limits	Sample Number (Location and Depth Interval) P27S016A (B016)	PCAL[b]
Radium-226 (pCi/g)	0.5	15.8±0.3	
Total Metals			
Aluminum	10	3,317.79	
Antimony	1.0	5.39	3×10^{1}
Arsenic	1.0	0.82(B)	8×10^{1}
Barium	10	10.45	4×10^{3}
Bery1lium	0.1	0.07(B)	2×10^{-1}
Cadmium	5.0	4.22(B)	4×10^{1}
Calcium	0.001	5.30	
Chromium	0.1	26.73	4×10^{2}
Coba1t	1.0	0.66(B)	
Copper	10	18.45	2.5×10^{3}
Iron	1.0	2,029.38	
Load	0.1	120.07	
Magnesium	100	68.82(B)	
Manganese	10	201.88	8×10^{3}
Morcury	0.04	1.84	2×10^{1}
Nickel	1.0	2.84	2×10^{3}
Potassium	10	45.65	
Silver	5	0.15(B)	2×10^{2}
Sodium	1.0	29.89	
Thalliua	10	2.63(B)	6×10^{0}
Vanadium	10	3.51(B)	5.6×10^{2}
Zinc	10	326.11	1.6×10^{4}
Methylene Chloride	5.0	3(B,B[a]	
Tentatively Identified Compounds.			
Hexane	9	(B[a],J)	
1,1-Bicyclopropyl (9CI)	2,800	(J)	
Cyclobutano, ethenyl (9CI)	1.200	(J)	
1.3-Dioxolano, 2-mothy1 (8CI)	280	(J)	
Benzene, aothyl	220	(B[a],J)	
2W-Pyran, 3-4-dihydro-6-methyl	78	(J)	
3-Hoxanono (8CI9CI)	220	(B[a],J)	
2-Hoxanono 4-hydroxy-3-prop	330	(B[a],J)	
3-Hoxanol (8CI9CI)	81	(J)	
Unknown	(8)3,551	(J)	
Cyclopropano. pontyl (9CI)	160	(J)	
Dodecanoic acid (9CI)	2,700	(B[a],J)	
Hexanedioic acid, dioctyl	370	(B[a],J)	
pH (units)		6.92	

14[NASP]UH8027:T0360/857/18

Koy at ond of table.

Table 3-4 (Cont.)

14[NASP]UH8027:T0360/857/18

Note: Tho number within parentheses preceding tho listed concontration valuo represents tho numbor of tontatively identified compounds (TICs) in this parameter group. Tho listod concontration roprosonts tho sum of tho individual group-mombor concentrations.

Key:

PCAL = RCRA Proposed Corroctivo Action Levol.
NA = Not Applicable
*Concentrations of TICs are ostimatod. No detection limits were established for TICs.
[b]RCRA PCAL tor chromium is for hexavalont chromium.

Qualifier:

(B) = Reported valuo was obtained from a reading that was loss than tho Contract Required Detection Limit but greater than or bqual to tho Instrument Detection Limit.
(B[a]) = Present in method blank.
(J) = ?or non-TICs, ostimatod valuo: compound presont but below dotoction limit. Also indicates that TIC concentrations are estimated becauso no dotoction limits were established for TICs.

Source: Controls for Environmental Pollution, 1991.

presented in Appendix F, and the complete analytical screening results are presented in Appendix H. The complete TAL/TCL results for radioactive soil sample S016A are presented in Appendix I.

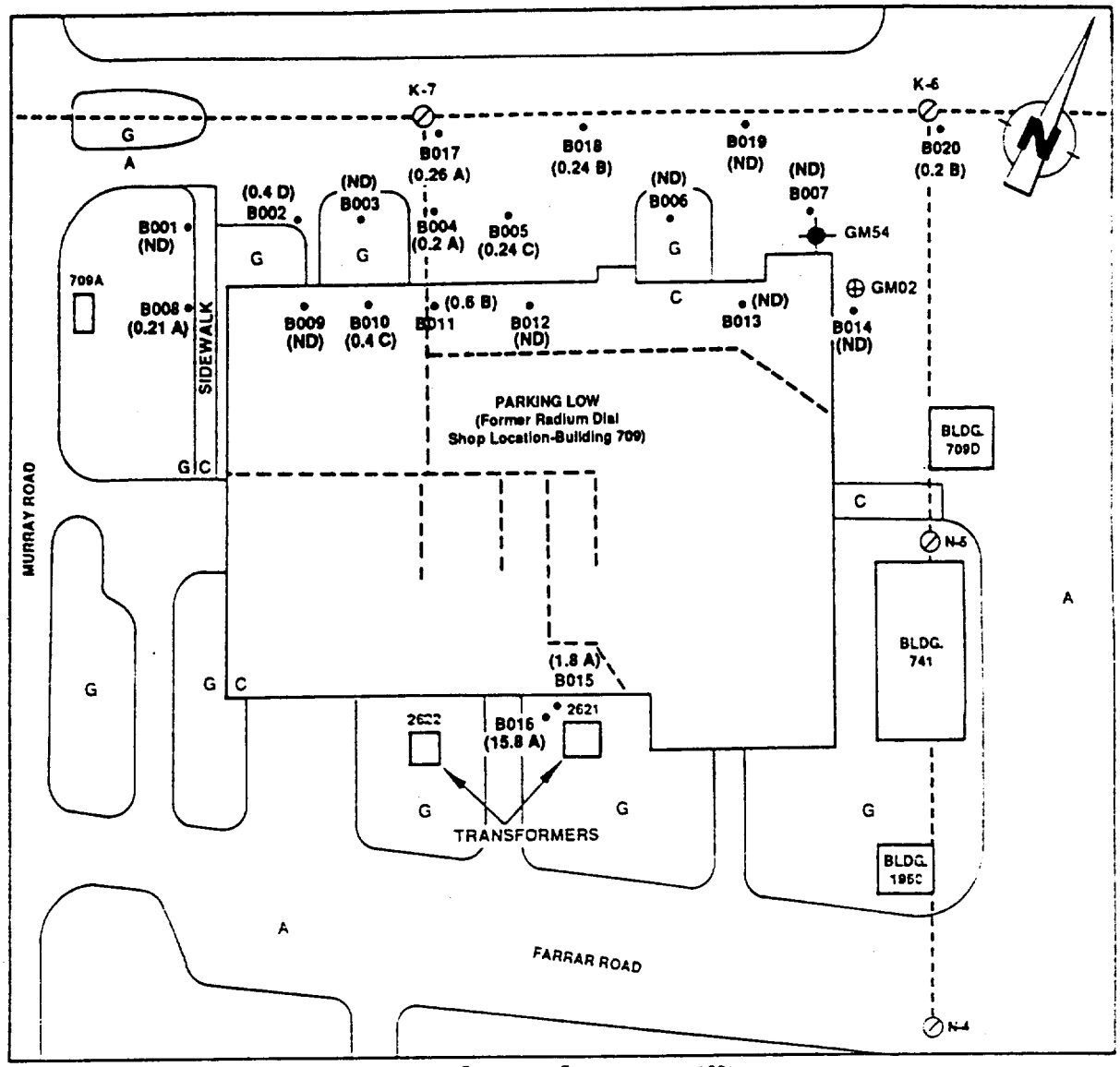
All soil samples collected from Site 27 were analyzed for pH. The pH results in soil samples ranged from 4.3 to 8.8. These pH levels are within normal, expected ranges and are not considered hazardous under the RCRA (EPA 1990b).

In general, radium-226, metals, TRPHs, VOCs, PAHs, and phenols were detected in soil samples collected at Site 27. Radium-226 levels and metals concentrations were highest in samples collected south of former Building 709. Organic compound contamination was prevalent in samples collected from the northern portion of the building foundation. No pesticides or PCBs were detected in any of the soil samples collected at Site 27.

Radiochemistry

Radium-226 was detected in 11 of the 20 soil borings completed at Site 27. The distribution of radium-226 concentrations detected in soil samples is presented on Figure 3-4. The concentrations ranged from 0.2±0.1 to 15.8±0.3 pCi/g in those samples with detectable concentrations. Sample S016A, collected from boring B016, exhibited by far the highest radium concentration (15.8±0.3 pCi/g; see Table 3-4). The next highest radium concentration (1.8±0.3 pCi/g; see Table 3-3) was detected in samples S015A and S016B, collected from borings B015 and B016. These borings are located approximately 5 feet apart in a grassy area south of former Building 709 where the radiation survey indicated significantly elevated radiation levels (see Section 3.4 and Figure 3-4). Sample S016C exhibited a radium-226 concentration of 1.4±0.3 pCi/g.

All other radium-226 concentrations present in soil samples were at or below 0.6 pCi/g. Borings B004, B011, B017, B018, and B020 were all located along the sewer line associated with former Building 709, and all exhibited detectable radium-226 Concentrations. Boring B019 was the only boring located along the sewer line that did not exhibit a detectable radium-226 concentration. Borings B002, B008, and B010 also contained soil with detectable concentrations of radium-226.



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

SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area		Exisang Permanent Deep Monitoring Well
C	Concrete-Paved Area	GM02	Permanent Monitoring Wen Number
G	Grass-Covered Area	•	Soil Boring
⊘	Sanitary Sewer Manhole	B001	Soil Boring Number
K-7/N-4	Manhole Numbers	(1.8 A)	Highest Radium-226 Concentration (pCi/g) and Sample Interval
BLDG. 709D	Building	(ND)	Nor Detected
⊕	Existing Permanent Shallow Monitoring Well	— — —	Sanitary Sewer Line

Figure 3-4 RADIUM-226 CONCENTRATIONS DETECTED IN SOIL SAMPLES — NAS PENSACOLA SITE 27

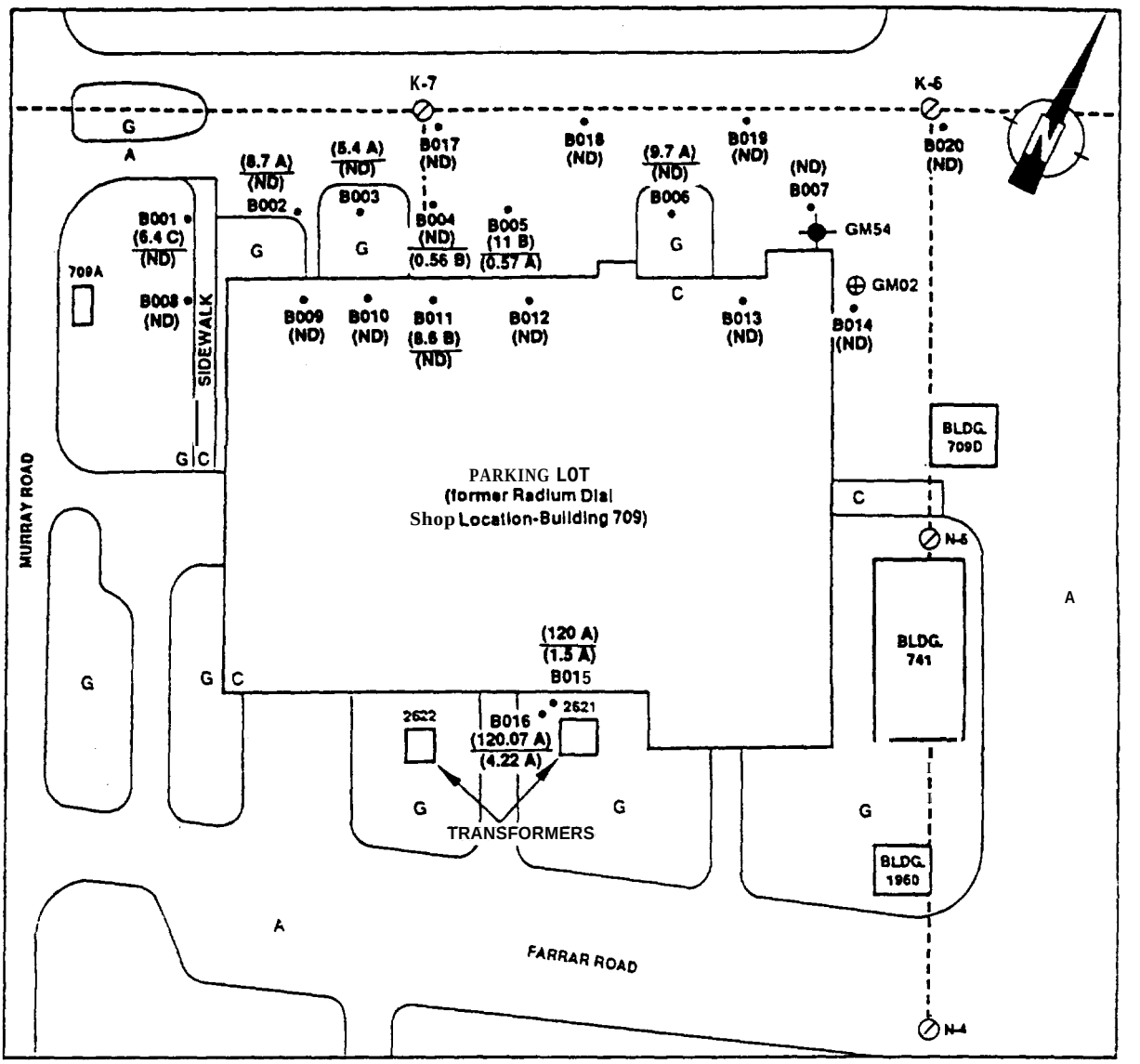
As discussed in Section 3.7.1, the EPA MCL for radium-226 in the upper 15 cm (0.5 foot) of soil is 5.0 pCi/g; however, in soil deeper than 0.5 foot below the surface, the MCL is 15 pCi/g (EPA 1990a). Only the radium-226 concentration detected in soil sample SO16A exceeds either of the EPA MCLs. Given that the soil samples were collected as a composite of 5 feet of soil, the possibility exists that discrete soil samples may contain radium-226 levels which exceed these EPA MCLs, especially for the surface to 0.5-foot depth interval.

During the drilling of both borings BO15 and 8016, it was noted that the gamma radiation levels were highest in the upper 0.5 foot of the boreholes and decreased sharply with depth. The ESP-2 gamma scintillator with the 2-inch NaI probe was used to screen the sampling activities during drilling. As the NaI probe was lowered down the borehole, the gamma radiation levels decreased. This decrease is indicative of surface contamination. During the drilling of all other boreholes at the site, the radiation levels in soil were relatively low and uniform with depth.

Metals

Relatively low concentrations of a variety of metals were detected at Site 27. Silver was the only screening metal not detected in any of the soil samples collected at Site 27. Only sample SO16A was analyzed for aluminum, which was detected at a concentration of 3,317.79 mg/kg; no RCRA PCAL exists for aluminum. Chromium and zinc were the most commonly detected metals, followed by lead and arsenic. Generally, the highest metals concentrations were detected in A-interval soil samples collected from borings BO15 and BO16. Sample SO16A was the only sample analyzed for TAL metals rather than screening metals.

Figure 3-5 presents the distribution of the highest lead and cadmium concentrations detected in each boring, and Figure 3-6 presents the distribution of the highest chromium and arsenic concentrations detected in each boring. Lead concentrations ranged from 4.6 to 120.07 mg/kg in samples with detectable concentrations. By far, the highest lead concentrations were detected in samples SO15A and SO16A at 120 and 120.07 mg/kg, respectively. These samples were collected from borings located south of former Building 709 (see Figure 3-5). The next highest



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

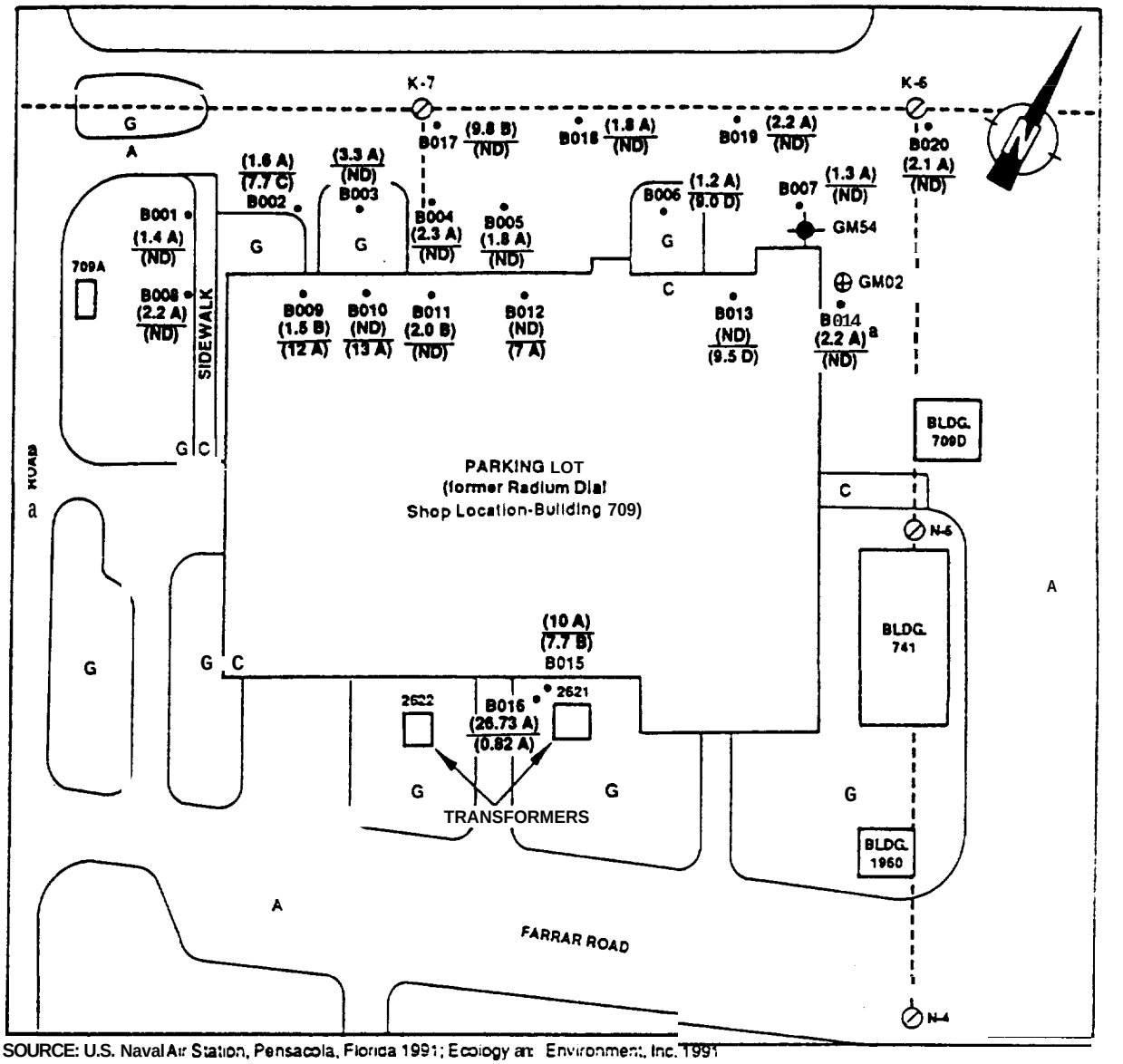
SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	✦	Existing Permanent Deep Monitoring Well
C	Concrete-Paved Area	GM02	Permanent Monitoring Well Number
G	Grass-Covered Area	•	Soil Boring
⊘	Sanitary Sewer Manhole	B001	Soil Boring Number
K-7/N-4	Manhole Numbers	(11 B) / (0.57 A)	Highest Lead Concentration (mg/kg) and Sample Interval / Highest Cadmium Concentration (mg/kg) and Sample Interval
BLDG. 709D	Building	(ND)	Not Detected
⊕	Existing Permanent Shallow Monitoring Well		

Figure 3-5 LEAD AND CADMIUM CONCENTRATIONS DETECTED IN SOIL SAMPLES — NAS PENSACOLA SITE 27



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

SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area		Existing Permanent Deep Monitoring Well
C	Concrete-Paved Area	GM02	Permanent Monitoring Well Number
G	Grass-Covered Area	•	Soil Boring
⊘	Sanitary Sewer Manhole	B001	Soil Boring Number
K-7/N-4	Manhole Numbers	(1.6 A)	Highest Chromium Concentration (mg/kg) and Sample Interval
BLDG. 709D	Building	(7.7 C)	Highest Arsenic Concentration (mg/kg) and Sample Interval
⊕	Existing Permanent Shallow Monitoring Well	(ND)	Not Detected
		a	Concentration Detected in Duplicate Sample S014AD

Figure 3-6 CHROMIUM AND ARSENIC CONCENTRATIONS DETECTED IN SOIL SAMPLES NAS PENSACOLA SITE 27

lead concentration was 11 mg/kg, present in S005B, collected from boring B005 near the northern perimeter of former Building 709. Lead concentrations were generally highest in the A- and B-interval samples. Currently, no RCRA PCAL exists for lead. Cadmium concentrations across the site were generally low (less than 5 mg/kg) and were highest in the A-interval samples from borings B015 (1.5 mg/kg) and B016 (4.22 mg/kg). The RCRA PCAL for cadmium is 40 mg/kg. Chromium concentrations ranged from 1.0 to 26.73 mg/kg and were also highest in the A-interval samples from borings B015 and B016 at 10 and 26.73 mg/kg, respectively, well below the RCRA PCAL of 400 mg/kg for hexavalent chromium. Arsenic was detected in samples from seven of the 20 borings at the site and was highest in samples S010A and S009A, located on the northwestern corner of the former Building 709 foundation, at 13 mg/kg and 12 mg/kg respectively. All arsenic concentrations are below the RCRA PCAL of 80 mg/kg.

Low concentrations of nickel and copper were each detected only in one sample, S017B and S015A, respectively. These levels are well below the RCRA PCALs (EPA 1990b). In borings where metals were detected, the highest concentrations were generally present in the A-interval samples.

TRPHs

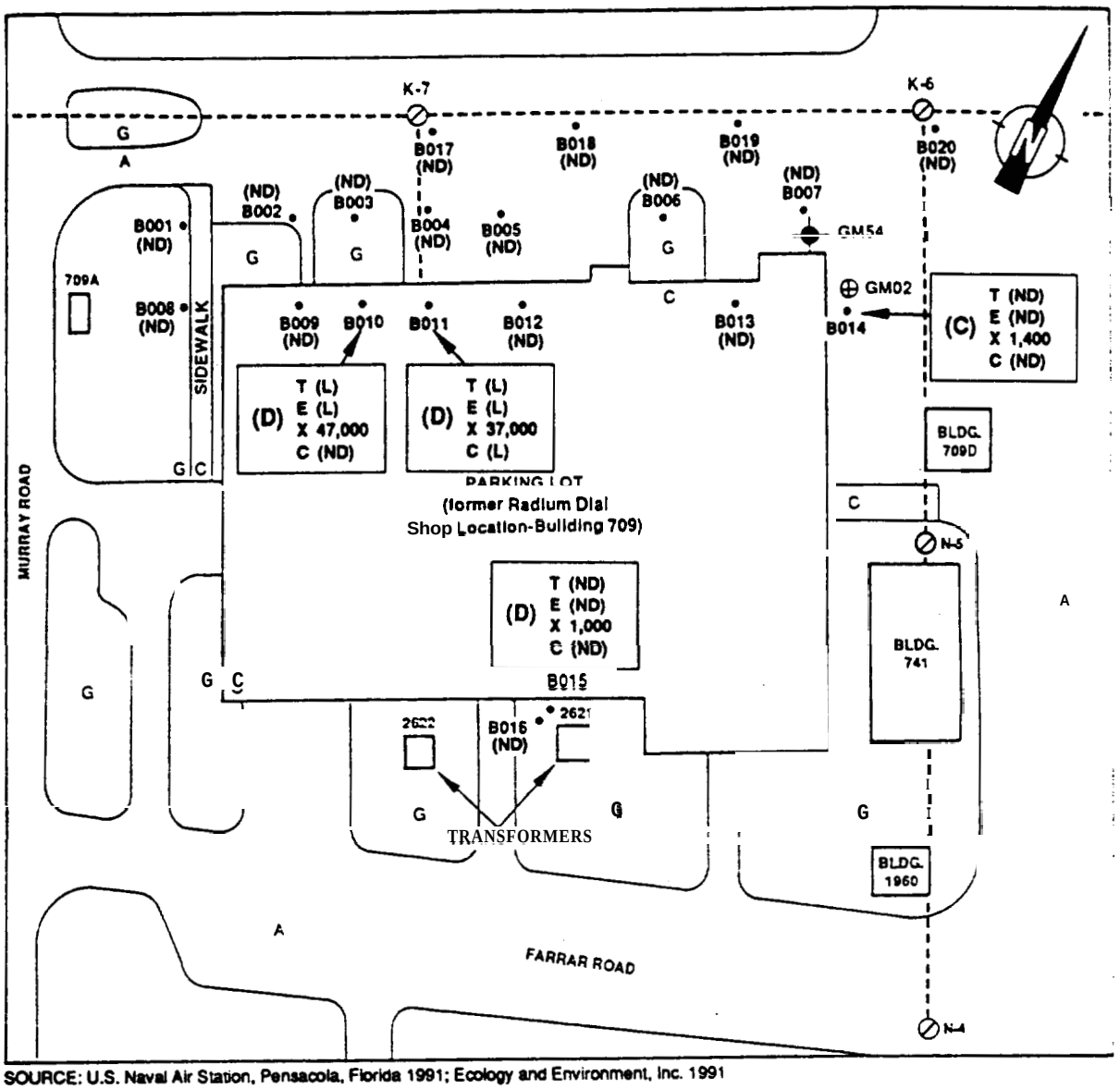
TRPHs were detected in samples from 16 of the 20 soil borings at Site 27. TRPH concentrations were generally below 100 mg/kg in the soil samples; however, samples from borings B010, B011, B012, and B017 exhibited TRPH concentrations greater than 100 mg/kg. Borings B010, B011, and B012 were located adjacent to one another on the building foundation of former Building 709 in the vicinity of the carburetor shop and degreaser area (see Figure 2-1), close to one of the sewer lines that lead to manhole K-7 near B017. The highest levels of TRPHs were detected in samples S010D and S011D at 8,700 and 8,300 mg/kg, respectively. Samples S012D and S017C exhibited TRPH concentrations at 310 and 270 mg/kg, respectively. Duplicate sample S017CD exhibited a TRPH concentration of only 7.1 mg/kg. This concentration is much lower than the concentration detected in the original sample (S017C) and may be the result of a non-homogeneous sample matrix (see Section.3.9.1.1). Sample S017C was collected near manhole K-7 from the C-interval.

Samples from borings B010, B011, and B012 also exhibited elevated headspace readings for the deep intervals (S010D, S011D, and S012D). Soil samples collected from borings located immediately west, north, and east of borings B010, B011, and B012 exhibited relatively low TRPH concentrations, indicating a somewhat localized area of TRPH contamination.

VOCs

Samples from only four of the 20 borings at the site exhibited detectable concentrations of VOCs that were included in the analytical screening suite. Toluene, ethylbenzene, total xylenes, methylene chloride, and chlorobenzene were detected in soil samples from Site 27. As shown on Table 3-3, all VOC concentrations are well below the associated RCRA PCALs. Figure 3-7 illustrates the distribution of total VOC concentrations across the site. Samples S010D and S011D exhibited the highest VOC concentrations. Both these samples were collected near the area of the former carbuerator shop and degreaser. This area also had the highest soil headspace readings. The detection limit for VOCs is usually 1,000 µg/kg; however, for samples S010D and S011D, the detection limit was raised to 20,000 µg/kg. Toluene and ethylbenzene were present in S010D and S011D at concentrations below this detection limit. The RCRA PCAL for toluene is 20 million µg/kg. Total xylene concentrations detected in S010D and S011D were 47,000 µg/kg and 37,000 µg/kg, respectively. The RCRA PCAL for xylenes is 200 million µg/kg. Chlorobenzene was present below the detection limit in sample S011D. Samples S014C and S015D were the only other samples that exhibited detectable concentrations of VOCs. The detection limit for VOCs in these samples was 1,000 µg/kg. Only total xylenes were present in S014C and S015D, at concentrations of 1,400 and 1,000 µg/kg, respectively.

Methylene chloride was detected at 3 mg/kg in the TCL analyses of sample S016A (see Table 3-4). However, this compound was also detected in the associated method blanks and is likely due to laboratory-derived contamination.



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

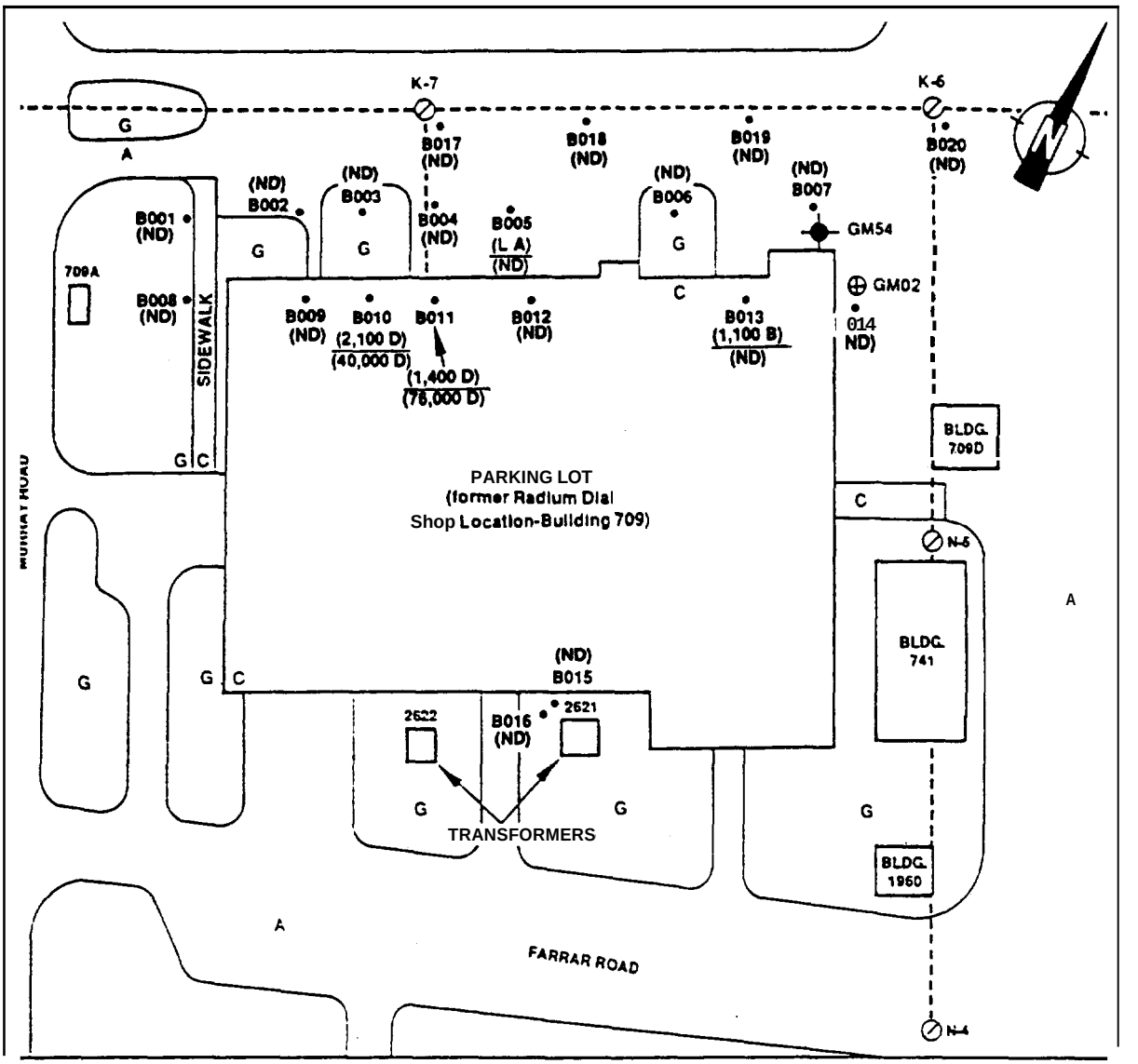
SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area		Existing Permanent Deep Monitoring Well	47,000	Concentration in ug/kg
C	Concrete-Paved Area	GM02	Permanent Monitoring Well Number	(ND)	Not Detected
G	Grass-Covered Area	•	Soil Boring	(L)	Present Below the Detection Limit
⊘	Sanitary Sewer Manhole	B001	Soil Boring Number	(D)	Highest Interval Detected
K-7/N-4	Manhole Numbers	T E X C	Toluene Ethylbenzene Total Xylenes Chlorobenzene		
BLDG. 709D	Building				
⊕	Existing Permanent Shallow Monitoring Well				

Figure 3-7 VOC CONCENTRATIONS DETECTED IN SOIL SAMPLES — NAS PENSACOLA SITE 27



SOURCE: U.S. Naval Air Station, Pensacola, Florida 1991; Ecology and Environment, Inc. 1051

SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	⊕	Existing Permanent Deep Monitoring Well
C	Concrete-Paved Area	GM02	Permanent Monitoring Well Number
G	Grass-Covered Area	•	Soil Boring
⊘	Sanitary Sewer Manhole	B001	Soil Boring Number
K-7/N-4	Manhole Numbers	(2,100 D)	Highest PAH Concentration (ug/kg) and Sample Interval
BLDG. 709D	Building	(40,000 D)	Highest Phenol Concentration (ug/kg) and Sample Interval
⊕	Existing Permanent Shallow Monitoring Well	(ND)	Not Detected
		(L)	Present Below the Detection Limit

Figure 3-8 PAH AND PHENOL CONCENTRATIONS DETECTED IN SOIL SAMPLES — NAS PENSACOLA SITE 27

PAHs

PAHs were detected in four soil samples at Site 27. Figure 3-8 illustrates the distribution of PAH and phenol concentrations in soil samples across the site. Samples S010D, S011D, and S013B exhibited PAH concentrations of 2,100, 1,400, and 1,100 µg/kg, respectively. PAHs were present below the detection limit of 1,000 µg/kg in sample S005A. It should be noted that PAHs were reported as benzo-a-pyrene for laboratory reporting purposes; however, PAHs other than benzo-a-pyrene may be present in the samples.

Phenols

Phenols were detected in samples S010D and S011D at concentrations of 40,000 and 76,000 µg/kg, respectively. No other samples exhibited detectable concentrations of phenols. It should be noted that phenols were reported as trichlorophenol for laboratory reporting purposes; however, phenols other than trichlorophenol may be present in the samples.

3.7.3 Groundwater

3.7.3.1 Field Parameters

Table 3-5 lists the groundwater pH, temperature, and specific conductance values measured in groundwater samples from the Site 27 temporary and permanent monitoring wells. The field parameter measurements for these well samples are within the reported range of values for ambient groundwater in Escambia County, Florida (Clemens et al. 1989). No floating or sinking immiscible hydrocarbons were detected in any of the wells. The temporary well information, including field parameter and groundwater elevation data, is presented in Appendix D.

3.7.3.2 Analytical Screening Parameters

Table 3-6 summarizes the analytical screening results for the groundwater samples collected from the five temporary monitoring wells at Site 27. Figure 2-1 shows the locations of the temporary monitoring wells. The complete radiochemical results for the groundwater samples

Table 3-5

GROUNDWATER FIELD PARAMETERS
NAS PENSACOLA SITE 27

Well Number	Temperature (°C)	pH (units)	Specific Conductance (μmhos/cm)	Date Measured
TW003	25	6.8	195	6/28/91
TW008	24	6.8	195	6/28/91
TW010	25	6.0	170	6/24/91
Two15	25	6.3	80	6/25/91
TWO17	26	6.7	290	8/27/91
GMO2	30	6.5	220	6/27/91
GM54	27	8.5	220	6/26/91

14[NASP]UH8027:T0360/635/26

Source: Ecology and Environment, Inc., 1991

Table 3-6

SUMMARY ANALYTICAL SCREENING RESULTS FOR GROUNDWATER SAMPLES
(FROM TEMPORARY MONITORING WELLS)
NAS PENSACOLA SITE 27
(All results in µg/L, unless noted)

Parameter	Detection Limit	Sample Number (Well Number)						FPDWS/ FSDWS
		P27GW003 (TW003)	P27GW008 (TW008)	P27GW010 (TW010)	P27GW015 (TW015)	P27GW017 (TW017)	P27GW017D[a] (TW017)	
Radium-226 (pCi/L)	0.6	--	--	--	8.7±3.2	--	2.2±1.0	5
Gross alpha (pCi/L)	2	4t3	4+3	--	0+3	--	3+2	15
Arsenic	60	--	--	110	--	--	--	SO
Chromium	10	--	--	--	76	16	34	SO
Zinc	20	--	--	30	66	39	34	5,000
Lead	40	--	--	80	120	--	--	50
Cadmium	5.0	--	--	0.4	--	--	--	IO
TRPHs (mg/L)	1.0	--	--	23	--	--	--	
Total Xylenes	10	--	--	13	--	--	--	
1,1-Dichloroethane	10	--	40	--	120(J)	--	--	
1,1,1-Trichloroethane	10	20	36	--	--	--	--	200
Phenols as Trichlorophenol	100	--	--	620	--	--	--	

14[NASP]UH8027:T0360/660/5

Key:

[a]Duplicate of sample P27GW017.
FPDWS = Florida Primary Drinking Water Standard.
FSDWS = Florida Secondary Drinking Water Standard.
Dash (--) indicates compound not detected.

Qualifier:
(J) = Estimated value.

Source: Ecology and Environment, Inc., 1991.

are presented in Appendix J, and the complete analytical screening results for the temporary monitoring well groundwater samples are presented in Appendix K.

In general, radium-226 was detected in two of the groundwater samples and gross alpha radioactivity in four. Metals were detected in samples from only three of the monitoring wells. TRPHs and phenols were detected in samples from only one well, and VOCs were in detected in samples from four wells. No PAHs, pesticides, or PCBs were detected in any of the groundwater samples collected from the temporary monitoring wells at the site.

Radiochemistry

Figure 3-9 presents the distribution of radium-226 and gross alpha concentrations detected in groundwater samples from Site 27.

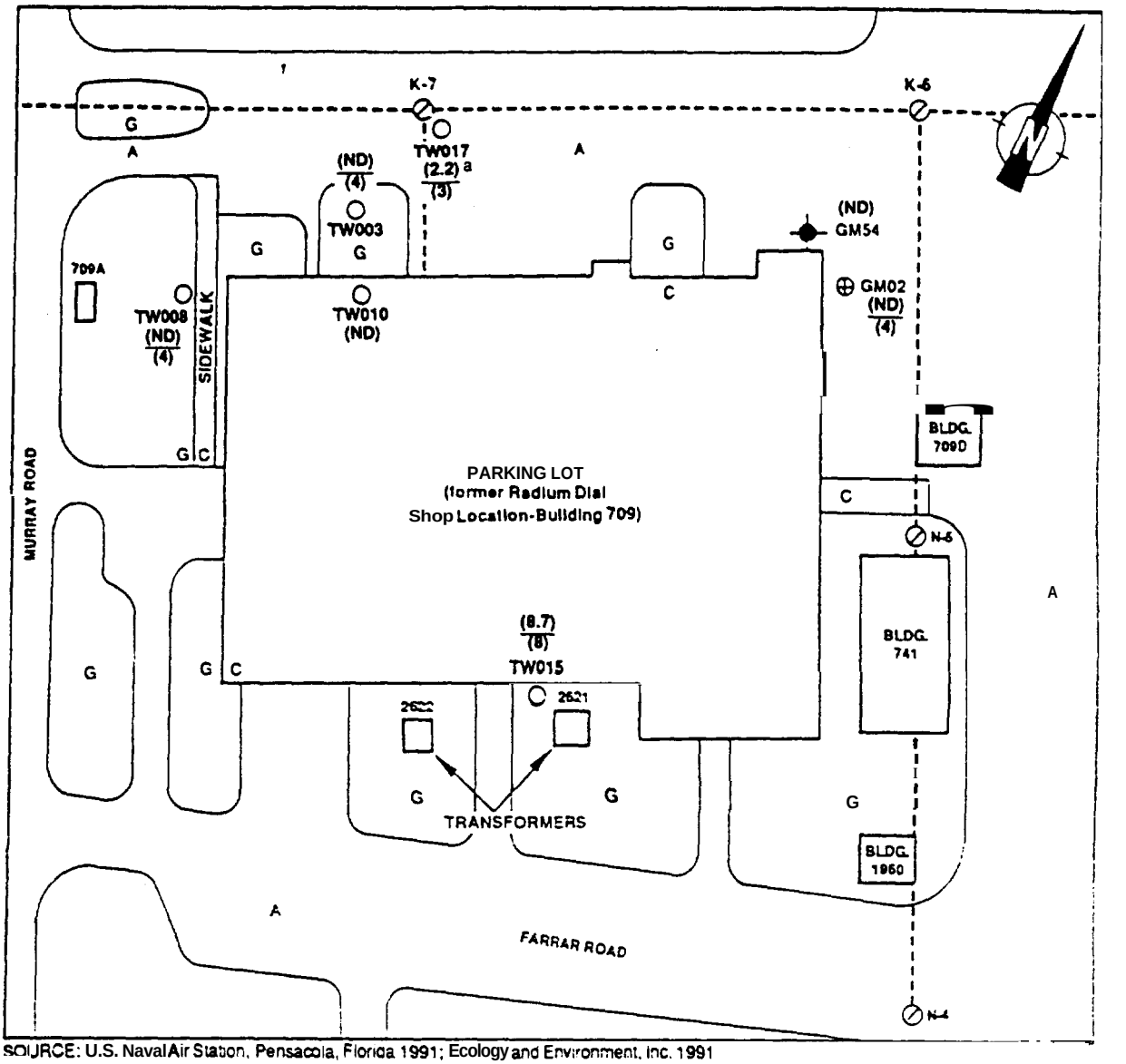
Radium-226 was detected in excess of the Florida Primary Drinking Water Standard (FPDWS) for radium-226 of 5 picoCuries per liter (pCi/L; Florida Department of Environmental Regulation [FDER] 1990) in sample GW015 (well TW015) at 8.7±3.2 pCi/L. Radium-226 was also detected in duplicate sample GW017D (well TW017) at 2.2±1.0 pCi/L; however, radium-226 was not detected in original sample GW017. No other groundwater samples from the temporary monitoring wells exhibited detectable concentrations of radium-226.

Gross alpha was detected in samples from all monitoring wells except TW010. The highest concentration was detected in sample GW015 at 8±3 pCi/L. The lowest detected concentration was 3+2 pCi/L in duplicate sample GW017D. None of the gross alpha concentrations detected in groundwater samples collected at Site 27 exceed the FPDWS of 15 pCi/L for gross alpha radioactivity (FDER 1990).

Metals

Figure 3-10 presents the distribution of lead, arsenic, and chromium concentrations detected in groundwater samples collected at the site.

Metals were detected in samples from only three (TW010, TW015, and TW017) of the five temporary monitoring wells at the site. Samples from wells TW010 and TW015 exhibited the highest metals concentrations.



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

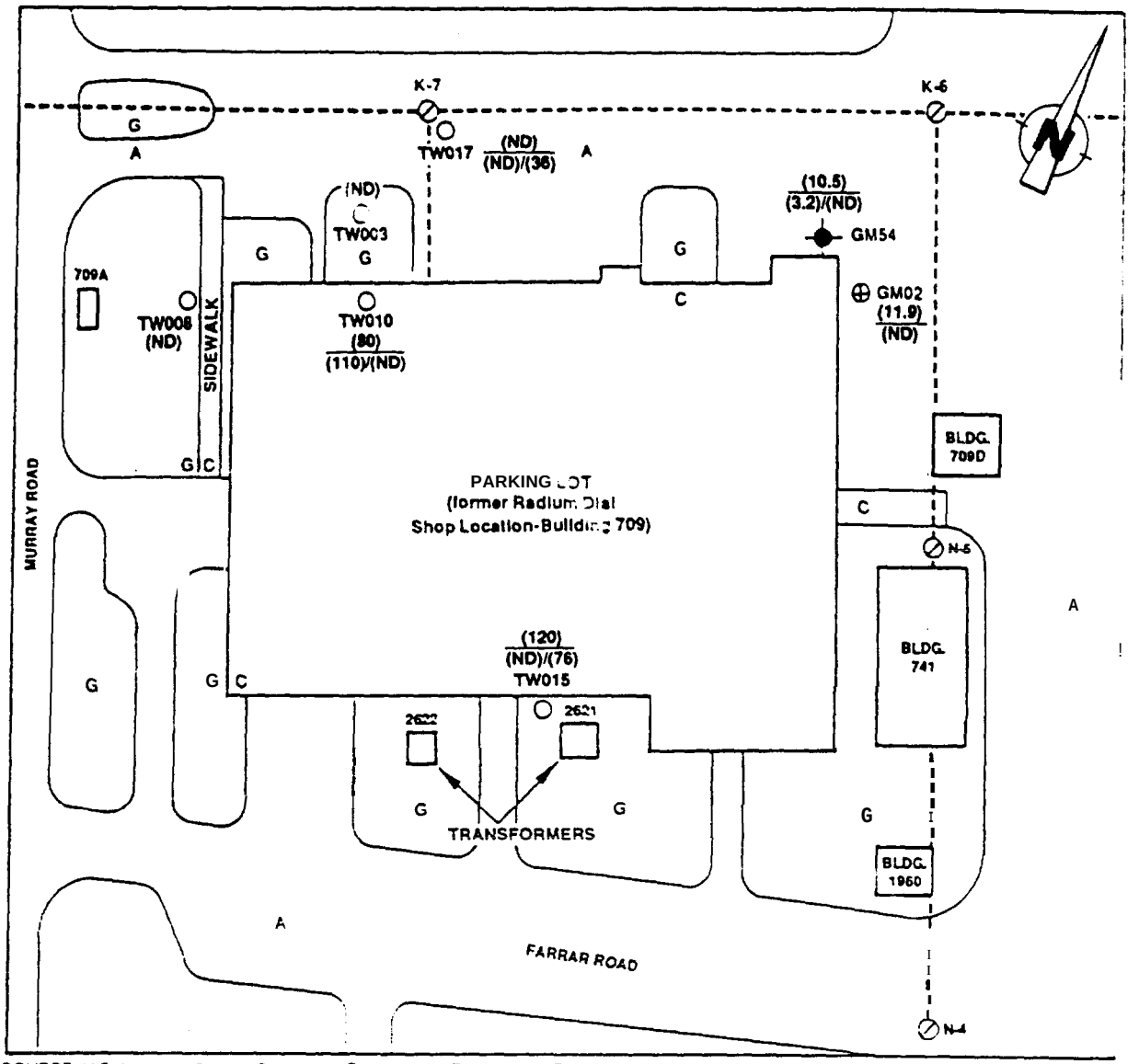
SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	GM02	Permanent Monitoring Well Number
C	Concrete-Paved Area	○	Temporary Monitoring Well
G	Gnu-Covered Area	TW003	Temporary Monitoring Well Number
⊘	Sanitary Sewer Manhole	(8.7)/(8)	Radium-226 Concentration (pCi/L) / Gross Alpha Concentration (pCi/L)
K-7/N-4	Manhole Numbers	a	Concentrations Detected in Duplicate Sample GW017D
BLDG. 709D	Building	(ND)	Not Detected
⊕	Existing Permanent Shallow Monitoring Well		
✦	Existing Permanent Deep Monitoring Well		

Figure 3-9 RADIUM-226 AND GROSS ALPHA CONCENTRATIONS DETECTED IN GROUNDWATER SAMPLES — NAS PENSACOLA SITE 27



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

SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area	✦	Existing Permanent Deep Monitoring Well
C	Concrete-Paved Area	OM02	Permanent Monitoring Well Number
G	Grass-Covered Area	○	Temporary Monitoring Well
⊘	Sanitary Sewer Manhole	TW003	Temporary Monitoring Well Number
K-7/N-4	Manhole Numbers	(80)	Lead Concentration (ug/L)
BLDG. 709D	Building	(110)/(ND)	Arsenic and Chromium Concentrations (ug/L)
⊕	Existing Permanent Shallow Monitoring Well	(ND)	Not Detected

Figure 3-10 LEAD, ARSENIC, AND CHROMIUM CONCENTRATIONS DETECTED IN GROUNDWATER SAMPLES — NAS PENSACOLA SITE 27

Arsenic was detected in GW010 at a concentration of 110 micrograms per liter (µg/L), which exceeds the FPDWS of 50 µg/L for arsenic. The concentration of chromium (76 µg/L) present in sample GW015 exceeds the FPDWS of 50 µg/L for chromium. Lead concentrations exceed the FPDWS of 50 µg/L in both groundwater samples GW010 (80 µg/L) and GW015 (120 µg/L), but lead was not detected in any other temporary well samples. Cadmium was detected in sample GW010 (8.4 µg/L) below the FPDWS of 10 µg/L.

TRPHs

TRPHs were detected only in groundwater sample GW010, collected from well TW010, at a relatively low concentration (23 milligrams per liter [mg/L]). However, this concentration exceeds the FDER remedial action target cleanup level of 5 mg/L (FDER 1990).

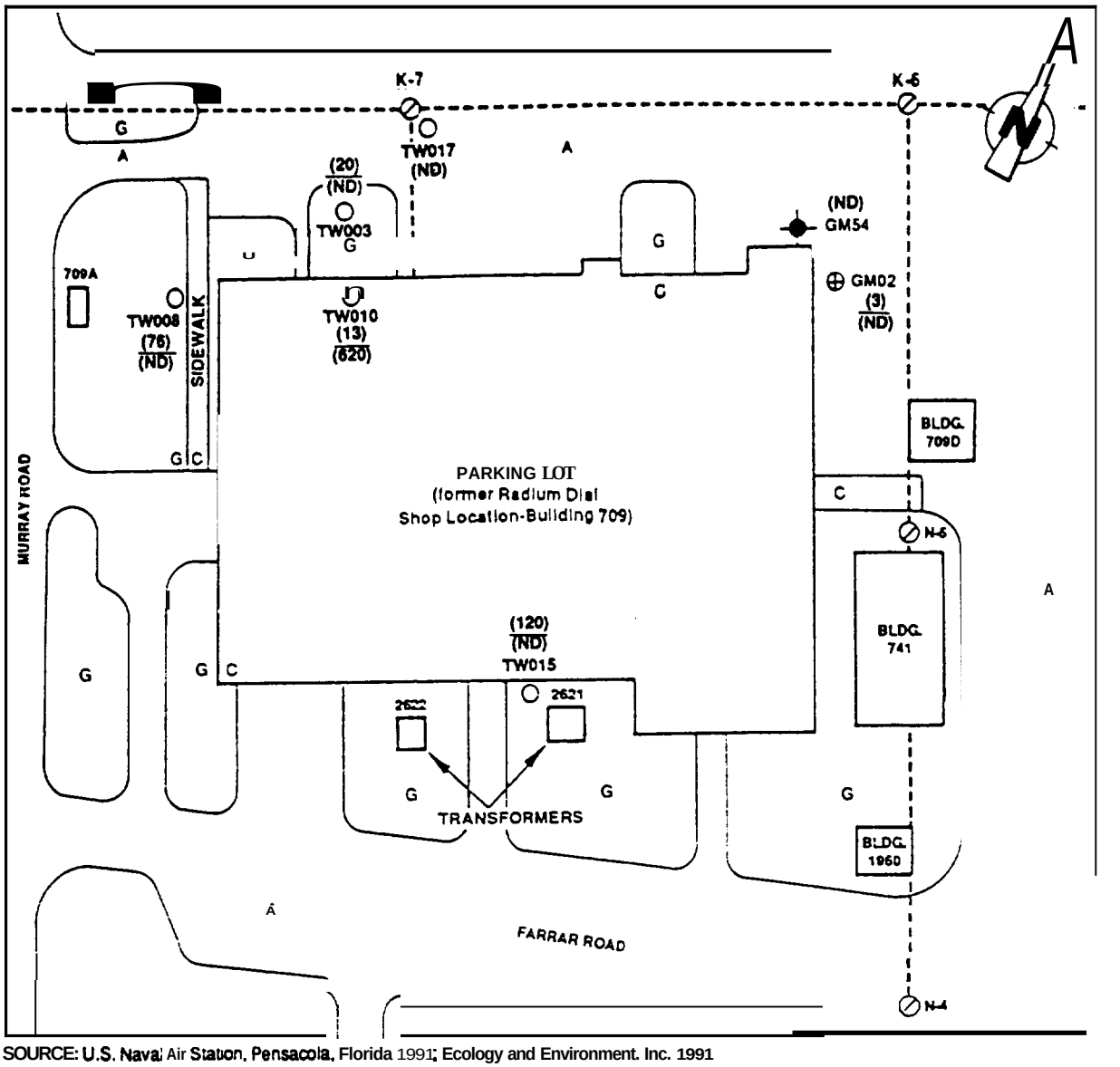
VOCs

VOCs were detected in groundwater samples from temporary monitoring wells TW003, TW008, TW010, and TW015. Detectable VOCs included total xylenes, 1,1-dichloroethane, and 1,1,1-trichloroethane. Figure 3-11 presents the distribution of total VOC concentrations detected in groundwater samples collected at Site 27. Total xylenes were detected only in GW010 at 13 µg/L. No drinking water standard exists for total xylenes; however, the Florida Groundwater Guidance Concentration (FGGC) is 50 µg/L (FDER 1989).

1,1-dichloroethane was detected in samples GW008 (40 µg/L) and GW015 (120 µg/L). No FPDWS exists for 1,1-dichloroethane; however, the FGGC for 1,1-dichloroethane is 2,400 µg/L (FDER 1989). 1,1,1-trichloroethane was detected in samples GW003 and GW008 at concentrations of 20 µg/L and 36 µg/L, respectively, below the FPDWS of 200 µg/L.

Phenols

As shown in Figure 3-11, phenols were detected in only one temporary monitoring well groundwater sample at the site (GW010). The phenol concentration of 620 µg/L detected in sample GW010 greatly exceeds the FGGC of 20 µg/L (FDER 1989). It should be noted that



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

SCALE

0 100 200 FEET

KEY:

A	Asphalt-Paved Area		Existing Permanent Deep Monitoring Well
C	Concrete-Paved Area	GM02	Permanent Monitoring Wall Number
G	Grass-Covered Area	O	Temporary Monitoring Well
⊘	Sanitary Sewer Manhole	TW003	Temporary Monitoring Well Number
K-7/N-4	Manhole Numbers	(13)/(620)	Total VOC Concentrations (ug/L) / Phenol Concentration (ug/L)
BLDG. 709D	Building	(ND)	Not Detected
⊕	Existing Permanent Shallow Monitoring Well		

Figure 3-11 TOTAL VOC AND PHENOL CONCENTRATIONS DETECTED IN GROUNDWATER SAMPLES — NAS PENSACOLA SITE 27

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

3.7.3.3 TAL/TCL Parameters

Table 3-7 summarizes the radiochemical, analytical, and TAL/TCL results for the groundwater samples collected from the existing permanent monitoring wells at Site 27. These samples were analyzed for radium-226, gross alpha radioactivity, the TAL/TCL parameter groups, total alkalinity, total hardness, and total organic carbon. Figure 1-2 shows the location of the shallow (GM02) and deep (GM54) permanent wells at the site. The complete radiochemical results for the permanent well groundwater samples are presented in Appendix J, and the complete TAL/TCL analytical results for the groundwater samples are presented in Appendix L.

In general, several metals were detected in the samples from both permanent monitoring wells. Most of the total (unfiltered) metals concentrations were higher than the dissolved (millipore-filtered) metals concentrations. Only a few VOCs and base-neutrallacid extractable organic compounds (BNAs) were detected in the groundwater samples, and several tentatively identified compounds (TICs) were also detected. A low concentration of gross alpha radioactivity was detected in one sample. No significant analytical differences occurred between the shallow well sample and the deep well sample.

Radiochemistry

Radium-226 was not detected in any of the permanent monitoring well groundwater samples. Gross alpha radioactivity was detected only in sample W002, collected from shallow well GM02, at 4±2 pCi/L, below the FPDWS for gross alpha (15 pCi/L). Gross alpha vas not detected in the duplicate sample W002D.

Hetals

Metals were detected in both permanent well samples and were generally at higher concentrations in the unfiltered analyses than in the filtered analyses. Only five metals (calcium, magnesium, potassium,

Table 3-7

SUMMARY TAL/TCL ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES
(FROM PERMANENT MONITORING WELLS)
NAS PENSACOLA SITE 27
(All results in µg/L, unless noted)

Parameter	Detection Limit	Sample Number (Well Number) P27W002 (GM02)	P27WO54 (GM54)	FPDWS/ FSDWS
Radium-226 (pCi/L)	0.6	--	--	5
Gross Alpha Radioactivity (pCi/L)	2	4±2	--	15
Total Metals				
Aluminum	11	1,500	125	
Arsonic	2.0	--	3.2 B)	50
Barium	9.0	16.4(B)	22.5 B)	1,000
Calcium	141	25,500	46,400	
Cobalt	5.0	--	6.5 B)	
Copper	3.0	5.1(B)	13.3 B)	1,000
Iron	1.0	1,610	2,980	300
Load	1.0	11.9(S)	10.5(S)	SO
Magnesium	126	2,400(B)	2,460(B)	
Manganese	1.0	115	21.9	50
POtassium	691	2,810(B)	2,190(B)	
Se1onium	2	--(N)	--(W,N)	10
Sodium	144	9,040	12,600	160,000
Thallium	3	--(W)	--(W)	
Vanadium	5	5.9(B)	8.8(B)	
Zinc	4	30.1	80.5	5,000
Dissolved Metals				
Aluminum	11	23.6(B)	145(B)	
Arsonic	2.0	--	--(W)	50
Barium	9.0	--	10.3(B)	1,000
Calcium	141	18,400	32,900	
Copper	3	--	3.6(B)	1,000
Iron	7.0	21.1(B)	23.8(B)	300
Load	1.0	--(W)	--(W)	50
Magnesium	126	2,040(B)	2,120(B)	
Potassium	691	2,110(B)	2,160(B)	
Selenium	2	--(N)	--(W,N)	10
Sodium	144	8,940	13,000	160,000
Thallium	3	--(W)	--(W)	
Vanadium	5	--	8.3(B)	
Zinc	4	5.1	10.2(B)	5,000
Methylene Chloride		19(B[a])	18(B[a])	
Acetone		48(B[a])	28(B[a])	
1,1,1-Trichloroethane	10	3(J)	--	200
Di-N-Butyl-Phthalate	5	--	1(J)	
Bis(2-Ethylhexyl)Phthalate	10	2(B,J)	4(B,J)	
Tentatively Identified Compounds.				
froon-113		8.0(J)	7.0(J)	
Unknown		--	18(J)	
Hexane		20(J)	17(J)	
Unknown (aldo-condensation product)		160(B[a],J,A)	180(B[a],J,A)	
Unknown Oxygenated Hydrocarbon		18(B[a],J)	23(B[a],J)	

14[NASP]UH8027:T0360/597/13

Key at end of table.

Table 3-7 (Cont.)

Parameter	Detection Limit	Sample Number (Well Number) P27W002 (GM02)	P27WO54 (GM54I	FPDWS/ FSDWS
Unknown		10(B[a],J)	8.0(J)	
Unknown		(4)38(J)	(10)758(J)	
Unknown Carboxylic Acid		--	22(J)	
Unknown Hydrocarbon		--	(5)123(J)	
Unknown Oxygonatod Hydrocarbon		--	22(J)	
Total Alkalinity (mg/L as $CaCo_3$)	1.0	39	100	
Total Hardness (mg/L as $CaCo_3$)	1.0	16	130	
Total Organic Carbon (mg/L)	1.0	1.9	22	

14[NASP]UH8027:T0360/597/13

Note: Tho numbor within parentheses preceding the listed concentration valuo represents tho number of tentatively identified compounds (TICs) in this paramotor group. Tho listed concentration represents the sum of tho individual group-member concontrations.

Key:

FPDWS = Florida Primary Drinking Water Standard.
FSDWS = Florida Secondary Drinking Water Standard.
Dash --) indicates compound not detected.
*Conc ntcations for TICs are estimated. No detection limits were established for TICs

Qualifiers:
(AI = Indicates that a TIC is a suspected aldo-condensation product.
(B) = Reported valuo was obtained from a reading that was lass than the Contract Required Detection Limit but greater than or equal to the Instrument Datoction Limit.
(B[a])= Present in aothod blank.
(J) = for non-TICs, ostimated valua: compound present but below detection limit. Also indicates that TIC concontrations are estimated becausa no detection 1 mits were established for TICs.
(N) = Spiked sample recovery not within control limits.
(S) = Tho roportod valuo was dotormined by the method of standard additions.
(W) = Post digestion spike for furnace AA analysis is out of control limits 85-115%), while sample absorbance is loss than 50% of spike absorbance.

Source: Ecology and Environaont, Inc., 1991.

sodium, and vanadium) were detected at similar levels in both permanent monitoring wells in both the filtered and unfiltered analyses. Of these five metals, only sodium is subject to the FPDWS of 160,000µg/L (FDER 1990). Both the filtered and unfiltered concentrations of sodium detected in samples collected from wells GM02 and GM54 are well below this standard.

Iron was detected in sample W002 from GM02 and sample W054 from GM54 in the unfiltered analyses at 1,670 and 2,980 µg/L, respectively. These levels exceed the Florida Secondary Drinking Water Standard (FSDWS) of 300 µg/L (FDER 1990). However, in the filtered analyses, iron concentrations for W002 and W054 are only 21.1 and 23.8 µg/L, respectively, well below the FSDWS. Similarly, the manganese concentration in the unfiltered (total) metals analysis of sample W002 (115 µg/L) exceeds the FSDWS of 50 µg/L, but the filtered sample exhibited no detectable manganese concentrations.

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 sample during acid preservation.

VOCs

Methylene chloride and acetone were detected in groundwater samples from both of the permanent groundwater monitoring wells at Site 27. However, both of these compounds are common laboratory contaminants and were also detected at similar concentrations in the associated laboratory method blanks (see Section 3.9.2). Therefore, it is unlikely that these compounds were actually present in groundvater samples. The only other VOC detected was 1,1,1-trichloroethane, which was present only in sample W002 at 3 µg/L. This result is qualified by the laboratory as an estimated value because 1,1,1-trichloroethane was found below the actual detection limit. The FPDWS for 1,1,1-trichloroethane is 200 µg/L, and the concentration present in sample W002 is well below this standard.

BNAs

Only tvo BNAs were detected in the permanent monitoring well groundwater samples. Di-n-butyl-phthalate was detected in sample W054

at 1 µg/L. This concentration is an estimated value because it is below the detection limit for di-n-butyl-phthalate. This parameter group is unregulated under FDER's drinking water standards but does have an FGGC of 700 µg/L (FDER 1989).

Bis(2-ethylhexyl)phthalate was detected in both groundwater samples W002 and W054 at 2 and 4 µg/L, respectively. These concentrations are estimated and are below the actual detection limit. This parameter was also detected in the associated method blank at a similar concentration and is likely not an actual groundwater contaminant.

TICs

As shown on Table 3-7, several TICs were detected in both of the groundwater samples from the permanent monitoring wells. Freon-113 was detected at 8.0 µg/L in sample W002 and at 7.0 µg/L in W054. Hexane was also tentatively identified in both samples at 20 µg/L (W002) and 17 µg/L (W054). The concentrations for freon-113 and hexane are below the actual detection limits. The other TICs are either hydrocarbons, aldo-condensation products, carboxylic acids, or just unknowns. At least three of these (unknown aldo-condensation product, unknown oxygenated hydrocarbon, and an unknown) were also detected in the method blanks and may be attributable to laboratory-derived contamination. The detection of these and other TICs of unknown derivation were all sufficiently low enough to warrant little concern.

Remediation Parameters

The permanent well groundwater samples were also analyzed for total alkalinity, total hardness, and total organic carbon to support subsequent groundwater remediation design at Site 27, if required. Table 3-7 presents the analytical results for these remediation parameters. The results indicate that the groundwater sample from the deeper well (GM54) exhibits higher alkalinity, hardness, and total organic carbon levels than that from the shallow well (GM02).

For comparative purposes, regional (i.e., within southern Escambia County) values of these same parameters in the Sand-and-Gravel Aquifer are as follows: alkalinity (as mg/L of $CaCO_3$) values range from <1.00

mg/L to 129.97 mg/L (Clemens et al. 1989); total hardness values range from 1.00 mg/L to 326.00 mg/L, with the majority being less than 50 mg/L (Johnson 1991); and total organic carbon values range from 2.88 mg/L to 24.41 mg/L (Clemens et al. 1989). The Site 27 groundwater samples exhibited values of alkalinity, hardness, and total organic carbon that were generally within the reported ranges of regional values.

3.8 CONTAMINATION DISTRIBUTION/SOURCE DISCUSSION

All three media, sediment, soil, and groundwater, sampled at Site 27 exhibit at least trace levels of contamination by one or more of the contaminant groups analyzed for during the Phase I investigation. In the following sections, each of the sampled media with be discussed separately regarding the nature, distribution, and potential source(s) of contamination.

3.8.1 Sediment

Radium-226, metals, TRPHs, and PAHs were detected in the only sediment sample (SD001) collected at the site. SD001 was collected in manhole K-6, which is downflow from where the sanitary sewer line from former Building 709 connects with the main sewer line via manhole K-7 (see Figure 1-2). As stated in the investigation work plan for Site 27, a cleaning solution containing benzene, acid, and other caustics used in the radium dial paint-stripping operations was routinely poured dovn the drain and into the sanitary sewer for several years (E & E 1990a). Radium-226, lead, and chromium are known constituents of the paint (Joyner 1991). Therefore, it is likely that the radium-226 and at least some of the other metals detected in the sediment sample collected from manhole K-6 are related to these previous disposal activities.

The sediment sample exhibited TRPHs and trace levels of PAHs. TRPHs and PAHs were also present in the soil samples collected adjacent to the sewer lines beneath the building foundation of former Building 709, and TRPHs were also detected in groundwater sample GW010, collected in this area. These sewer lines serve areas where carburetor work was formerly conducted in the building and where degreasers and cleaning tanks were located (see Figure 1-2). The possibility exists that the TRPH and PAH contamination in sediments collected from manhole K-6 are

attributable to past practices in the carburetor shop in former Building 709. However, sanitary sewage from the industrial buildings west of the site (e.g., buildings 648 and 649) also contribute to the flow through manhole K-6 and may also represent a source of the TRPHs and PAHs detected.

3.8.2 Soil

Radium-226, metals, TRPHs, VOCs, PAHs, and phenols were all detected in soil samples collected from Site 27. Radium-226 concentrations were highest in samples collected from the borings south of former Building 709 (B015 and B016). The highest concentration was detected in sample S016A at 15.8 pCi/g, which exceeds the EPA MCLs. Borings B015 and B016 are located approximately 5 feet apart in a grassy area adjacent to the southern end of the building foundation. The instrument shop was located inside of Building 709 just north of these borings (see Figure 1-2), but it is unknown whether or not the instrument shop was associated with the radium dial instruments. Additionally, the radium paint room/equipment building was located approximately 75 feet east of B015 and B016 (see Figure 1-2). Approximately 5 feet east of borings B015 and B016, stairs leading to a former entrance to Building 709 may indicate a former high-traffic area for personnel working in the building. It is possible that radium paint and/or equipment associated with radium painting operations was transported from the radium paint room/equipment building into Building 709 via the entranceway adjacent to borings B015 and B016. It appears that a surface spill and/or dumping of radium paint or paint sludge might have occurred in this area. While drilling borings B015 and B016, it was noted that gamma radiation also decreased with depth as measured with the gamma scintillator. Radium-226 concentrations also decreased with depth in each of these boreholes. This occurrence is indicative of surface contamination. Because no discrete surface soil samples (0 to 0.5 foot) were collected, it is uncertain how extensive the surface radium-226 contamination is, and the possibility exists that the surface soil in other areas may exceed the MCL of 5 pCi/g.

This possibility is of particular concern in the area south of the building foundation around borings B015 and B016 where, during the

walkover radiation survey, elevated radiation levels were detected (see Figure 3-1). A high likelihood exists that discrete, 0 to 0.5 foot soil samples collected in this area of elevated radiation levels would exceed the EPA MCL of 5.0 pCi/g. The likelihood that surface soil samples collected elsewhere at the site would exceed the EPA MCLs is low, based on the low-radiation survey readings in other areas of the site.

All other radium-226 results in soil samples were at or below 0.6 pCi/g, considerably lower than the EPA MCLs. Five out of the six borings located along the sanitary sewer line associated with former Building 709 exhibited low-level radium-226 Concentrations. The radium-226 concentrations detected in samples from these borings could be associated with the sewer line. No other areas of elevated radiation that would suggest radium contamination were detected during drilling or during the radiation survey.

Host metals concentrations were also highest in soil samples collected from borings B015 and B016. Lead, cadmium, chromium, and zinc concentrations were highest from at least one of these borings. Arsenic was highest in sample S010A from boring B010. No metals concentrations exceed the respective RCRA PCALs.

The metals detected in samples from borings B015 and B016 may be associated with metals contained in paint and painting solutions used at the site. The highest concentrations of metals were generally present in the A-interval samples from these borings, indicating a surface spill and/or dumping of paint or paint sludge or other metal-containing waste in this area.

The highest concentrations of arsenic were detected in the northern portions of the site. Elevated arsenic concentrations were detected in soil samples from borings B002, B006, B009, B010, B012, and B015. The samples collected from borings beneath the foundation exhibited the highest concentrations in the A interval, except for boring B013. The samples collected from borings north of the foundation exhibited the highest concentrations in the C and D intervals. In addition, an elevated chromium concentration was detected in boring B017 in the B interval. This distribution of metals concentrations suggests surface

contamination in the area of the former carburetor shop and sporadic subsurface contamination possibly associated with past activities at Building 709.

TRPHs, VOCs, PAHs, and phenols were present at high concentrations in samples S010D and S011D, collected from borings B010 and B011, located beneath the building,foundation. These borings are located in the former carburetor shop area of Building 709 (see Figure 1-2), near a former degreaser and cleaning tank. These borings also had elevated OVA headspace readings in the D interval. The organic compounds detected in the soil samples from these borings are most likely attributable to past activities associated with the carburetor shop, perhaps via floor drains and leaky pipes or through cracks in the concrete floor. Soil samples collected west, north, and east of these borings exhibited relatively low to nondetectable levels of organic compounds (see figures 3-7 and 3-8). However, it should be noted that no soil samples were collected beneath the building foundation south of this area and it is probable that soil contamination extends south of the area where it was detected.

The elevated PAHs detected in sample S013B and elevated total xylenes detected in sample S014C may be attributable to activities within the propeller.shop, previously located in the northeastern corner of Building 709.

An elevated TRPH concentration of 270 mg/kg present in sample S017C, collected from boring B017 adjacent to manhole K-7, may be the result of localized automobile activities because boring B017 is located in a parking lot. However, TRPHs either were not present or were present at a very low concentration in the A- and B-interval samples collected from boring B017, indicating that localized automobile activities are probably not the source of this Contamination. Therefore, the TRPH contamination may be associated with the sanitary sewer line or a release near the manhole connections.

3.8.3 Groundvater

Radium-226, gross alpha, metals, TRPHs, VOCs, and phenols were detected in groundwater samples collected at the site. Only the radium-226 concentration detected in sample GW015 exceeds the FPDVS. Gross alpha concentrations in all groundwater samples are below the

FPDWS. As previously discussed, temporary well TW015 is located south of former Building 709 in an area of high surface radiation levels and elevated radium-226, chromium, and lead levels in soil. Concentrations of chromium and lead in GW015 also exceed the applicable FPDWSs. Both the radium-226 and metals contamination in GW015 may be attributable to a localized spill or dumping of paint containing radium and metals. Total iron concentrations detected in permanent well samples from GM02 and GM54 exceed the FSDWS. The total manganese concentration detected in the groundwater sample from GM02 also exceeds the FSDWS. These parameters were not included in the screening analysis for temporary well samples and may be present in the groundwater at similar levels elsewhere beneath the site.

Sample GW010, collected from well TW010 located in the former carburetor shop area of the building foundation, exhibited elevated metal, TRPH, total xylene, and phenol concentrations. Arsenic and lead concentrations in this sample exceed the applicable FPDWSs. The contamination detected in well TW010 is most likely attributable to the past utilization of this area as a carburetor shop and degreaser and cleaning tank area. Spills might have occurred and resulted in infiltration through cracks in the concrete floor and the underlying soils. Additionally, chemicals used in the carburetor shop area might have been poured down the drains, resulting in possible leaks from the sanitary sewer system into the soil and groundwater.

VOCs detected in groundwater samples collected in the northwest portion of the site may also be associated with carburetor shop activities or localized spills and/or dumping of cleaning solvents in this area.

No significant correlation of contamination between wells is apparent. Samples collected north and west of TW010 exhibited almost no contamination; however, no samples were collected immediately east or south of this well. Wells TU015 and TW017 are in isolated areas, and the lateral extent of contamination in these areas is unknown. Although the surficial zone appears to be impacted in several areas by previous on-site activities, no significant levels of any potential contaminants were detected in the main producing zone groundwater.

3.9 QA/QC

3.9.1 Field QA/QC

3.9.1.1 Analytical Screening Parameters

Three soil duplicate samples and one groundwater duplicate sample were collected for the Site 27 screening samples. Due to the lack of sufficient sediment, no sediment duplicate sample was collected. The analytical results for the duplicate samples are presented in the summary analytical screening tables for soil and for groundwater (see tables 3-3 and 3-5). Analyses of soil sample duplicates SO11BD and SO14AD indicated that sample matrix materials were generally homogeneous. In contrast, soil sample duplicate SO17CD exhibited a TRPH concentration of 7.1 mg/kg, but its original sample, SO17C, exhibited a TRPH concentration of 270 mg/kg. This difference is likely attributable to a non-homogeneous distribution of TRPHs in the soil matrix.

The analytical results for groundwater duplicate sample GWO17D also indicated that sample matrix materials were generally homogeneous. However, radium-226 and gross alpha radioactivity were not detected in the original sample GWO17, but were detected at low concentrations in the duplicate.

3.9.1.2 TAL/TCL Parameters

One field duplicate sample, one trip blank, one field blank, one sampling equipment rinsate blank, and one preservative blank were collected for the two Site 27 permanent monitoring well groundwater samples. The analytical results for these QA/QC samples are summarized in Table 3-8. The complete analytical results for the permanent well groundwater samples and the corresponding QA/QC samples are presented in Appendix L. The radiochemical results are presented in Appendix J.

The analytical results for sample WOO2 and its duplicate WOO2D indicated that sample matrix materials were generally homogeneous. Aluminum and sodium were detected in the field blank (FBOO7), the rinsate blank (RBOO7), and the preservative blank (PBOO7) in the unfiltered sample at relatively low concentrations. Calcium and zinc were detected in the rinsate blank RBOO7 and the preservative blank PBOO7. Because iron was detected at 1,110 µg/L in the field blank FBOO7 and at less than 50 µg/L in the other blanks, the iron concentration

Table 3-8

SUMMARY TAL/TCL ANALYTICAL RESULTS FOR GROUNDWATER FIELD QA/QC SAMPLES
(FROM PERMANENT MONITORING WELLS)
NAS PENSACOLA SITE 27
(All results in µg/L, unless noted)

Parameter	Detection Limit	Sample Number (Well Number/Type)					
		P27W002 (GM02)	P27W002D[a] (GM02)	P27WTB007[b] (Trip Blank)	P27WFB007[c] (Field Blank)	P27WRB007[d] (Sampling Equipment Rinsate)	P27WPB007[e] (Preservative Blank)
Radium 226 (pCi/L)	0.6	--	--	NA	NA	--	--
Gross Alpha Radioactivity (pCi/L)	2	4±2	--	NA	NA	--	--
Total Metals							
Aluminum	11	1,500(B)	1,110	NA	14.2(B)	52.4(B)	26.2(B)
Arsenrc	2	--	--	NA	--(W)	--(W)	--(W)
Barium	9	16.4(B)	14.5(B)	NA	--	--	--
Cadmium	3	--	--	NA	--	--	--
Calcium	141	25,500	24,300	NA	--	164(B)	185(B)
Copper	3	5.1(B)	3.5(B)	NA	--	--	3.2(B)
Iron	7	1,670	1,680	NA	1,110	46.7(B)	21.5(B)
Load	1	11.9(S)	12.9(S)	NA	1.6(B)	--	--
Magnesium	126	2,400(B)	2,450(E)	NA	--	--	--
Manganese	1	115	102	NA	1.7(B)	--	--
Potassium	691	2,810(B)	2,580(B)	NA	--	--	--
Selenium	3	--(N)	--(N)	NA	--(N)	--(N)	--(N)
Sodium	144	9,040	8,840	NA	264(B)	273(B)	184(B)
Thallium	3	--(W)	--(W)	NA	--(W)	--(W)	--(W)
Vanadium	5	5.9(B)	6.7(B)	NA	--	--	--
Zinc	4	30.1	24.0	NA	--	7.3(B)	8.2(B)
Dissolved Metals							
Aluminum	11	23.6(B)	37.8(B)	NA	26.2(B)	19.3(B)	NA
Antimony	51.0	--	--	NA	--	61.9	NA
Barium	9	--	9.4(B)	NA	--	--	NA
Calcium	141	18,400	23,000	NA	--	--	NA
Copper	3	--	3.7(B)	NA	--	--	NA
Iron	7	21.1(B)	23.9(B)	NA	9.9(B)	13.8(B)	NA
Load	1	--(W)	--(W)	NA	--	--	NA
Magnesium	126	2,040(B)	2,260(B)	NA	--	--	NA
Potassium	691	2,110(B)	3,310(B)	NA	--	--	NA
Solenium	2	--(N)	--(N)	NA	--(N)	--(N)	NA

14[NASP]UH8027:TO360/636/7

Key at end of table.

Table 3-8 (Cont.)

Parameter	Detection Limit	Sample Number (Well Number/Type)					
		P27W002 (GM02)	P27W002D[a] (GM02)	P27WTB007[b] (Trip Blank)	P27WFB007[c] (Field Blank)	P27WRB007[d] (Sampling Equipment Rinsate)	P27WPB007[e] (Preservative Blank)
Silver	3	--	--	NA	--	3.5(B)	NA
Sodium	144	8,940	9,010	NA	247(B)	--	NA
Thallium	3	--(W)	--(W)	NA	--(W)	--(W)	NA
Vanadium	5	--	--	NA	--	--	NA
Zinc	4	5.1	4.4(B)	NA	--	--	NA
Methylene Chloride	5	19(B[a])	18(B[a])	15(B[a])	17(B[a])	15(B[a])	19(B[a])
Acetone	10	48(B[a])	30(B[a])	20(B[a])	29(B[a])	25(B[a])	15(B[a])
1,1,1-Trichloroethane	5	3(J)	3(J)	--	--	--	--
Bis(2-Ethylhexyl) Phthalate		2(B[a],J)	2(B[a],J)	NA	2(B[a],J)	3(B[a],J)	NA
Tentatively Identified Compounds:*							
Freon-113		8.0(J)	15(J)	--	5.0 J)	--	8.0(J)
Unknown		10(B[a],J)	15(B[a],J)	--	--	9(B[a],J)	--
Hexane		20(J)	19(J)	16(J)	19 J)	16(J)	17(J)
Unknown aldo-condensation product		160(B[a],J,A)	190(B[a],J,A)	--	40(B[a],J,A)	150(B[a],J,A)	--
Unknown oxygenated hydrocarbon		18(B[a],J)	22(B[a],J)	--	4.0(B[a],J)	(2)23(B[a],J)	--
Unknown		4)38(J)	(2)34(J)	6(J)	(7)1,873.5(J)	(5)2,657(J)	(2)9(J)
Total Alkalinity (mg/L as $CaCo_3$)	1.0	39	38	NA	2.2	NA	NA
Total Hardness (mg/L as $CaCo_3$)	1.0	16	70	NA	--	NA	NA
Total Organic Carbon (mg/L)	1.0	1.9	3.5	NA	--	NA	NA

14[NASP]UH8027:T0360/636/7

Key at end of table.

Table 3-8 (Cont.)

14[NASP]UH8027:T0360/636/7

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

Key:

NA = Analyses not performed.
Dash (--) indicates compound not detected.
*Values for TICs are estimated. No detection limits were established for TICs.

[a]Analyzed for total metals, VOCs, gross alpha radioactivity, and radium-226 only.
[b]Duplicate of sample P27W002.
[c]Analyzed for total metals, dissolved metals, cyanide, TRPHs, VOCs, BNAs, pesticides, PCBs, total alkalinity, total hardness, and total organic carbon only.
[d]Analyzed for total metals, dissolved metals, cyanide, TRPHs, VOCs, gross alpha radioactivity, and radium-226 only.
'Analyzed for VOCs only.

Qualifiers:
(A) = The flag indicates that a TIC is a suspected aldo-condensation product.
(B) = Reported value was obtained from a reading that was less than the Contract Required Detection Limit but greater than or equal to the Instrument Detection Limit.
(B[a]) = Present in method blank.
(J) = For non-TICs, estimated value; compound present but below detection limit. Also indicates that TIC concentraitons are estimated because no detection limits were established for TICs.
(N) = Spiked sample recovery not within control limits.
(S) = The reported value was determined by the nethod of standard additions.
(W) = Post digestion spike for furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

Source: Ecology and Environment, Inc., 1991.

detected in the original sample W002 (1,670 µg/L) is suspect and may be the result of field contamination. Three volatile compounds (methylene chloride, acetone, and bis(2-ethylhexyl)phthalate were detected in the four blank samples collected; however, each of these compounds was detected in the laboratory method blanks at similar concentrations and probably represent laboratory-derived contamination (see Section 3.8.2.2). Several TICs were also detected in the four sample blanks.

Only the field blank FB007 was analyzed for the remediation parameters alkalinity (2.2 mg/L), total hardness (not detected), and total organic carbon (not detected).

The rinsate blank and the preservative blank were analyzed for radium-226 and gross alpha radioactivity but did not exhibit detectable levels of either parameter.

3.9.2 Laboratory QA/QC

As previously mentioned, methylene chloride was detected in soil sample S016A and its method blank. Additionally, methylene chloride, acetone, bis(2-ethylhexyl)phthalate, and several TICs were detected in one or more of the TAL/TCL groundwater method blanks at concentrations similar to those detected in the associated samples. Because these compounds were also present at similar concentrations in the method blanks, the presence of these compounds in the samples is likely attributable to laboratory-derived contamination. Specific QA/QC criteria (e.g., replicate analysis data, surrogate spike recovery data, and parameter recovery data) associated with particular methods to demonstrate precision and accuracy were performed for all media sampled on Site 27, and the results were within the acceptable limits as specified in Section 9 of the GQAPP.

4. CONCLUSIONS

Sediment, soil, and groundwater contamination are all present on Site 27. Radium-226, metals, TRPHs, VOCs, PAHs, and phenols are the primary contaminants. The detected contamination is mainly attributable to past activities associated with former Building 709 and the sanitary sewer system.

The sediment sample collected from sanitary sewer manhole K-6, downflow from former Building 709, exhibited low levels of radium-226, metals, and TRPHs. However, the concentration of radium-226 does not exceed the EPA MCLs, and the levels of metals detected were well below the RCRA PCALs. The flow from active facilities west of Site 27 through manhole K-6 might have also contributed to the analytes detected, other than radium-226.

Soil contamination is evident in two areas of the site. One area is in the south-central portion of the site adjacent to the former instrument shop. Soil samples collected in this area exhibited elevated levels of radium-226, chromium, and lead, primarily in the near surface soils. Only one soil sample in this area exceeded the EPA HCLs for radium-226 in soil. Given that the soil samples were composited over a 5-foot interval, other discrete soil intervals exceeding the HCLs for radium-226 may exist in this area. This possibility is of particular concern in the area between transformer 2621 and the southern edge of the Building 709 foundation near borings BO15 and BO16 where elevated radiation readings were detected during the radiation survey. It is unlikely, however, that surface soil elsewhere at the site would exceed the HCLs for radium-226, based on the radiation survey and sample screening results. The two A-interval (0 to 5 feet BLS) soil samples collected south of the building foundation also exhibited elevated chromium and lead concentrations. The concentrations of chromium were

far below the RCRA PCAL for hexavalent chromium. No RCRA PCAL exists for lead. The nature and distribution of these analytes in the soils in this area are suggestive of possible surface dumping and/or spilling of paint that contained radium.

The other area of soil contamination occurs in the north-central portion of the site and extends from the sanitary sewer line to an area just inside the Building 709 foundation where the former carburetor shop, degreaser, and cleaning tank were located. Soil samples from this area exhibited elevated concentrations of radium-226, metals, TRPHs, VOCs, PAHs, and phenols. The high levels of VOCs, PAHs, and phenols detected in this area are probably related to leaks and spills of materials used during the operation of the former carburetor shop, as well as leaks from the sanitary sewer which was used for the disposal of wastes. The extent of soil contamination appears to be limited west, north, and east of this area but is not delineated to the south beneath the building foundation.

Two general areas of groundwater contamination which correspond to the two areas of soil contamination are also present on Site 27. The shallow groundwater samples collected in the south-central portion of the site exhibited levels of radium-226, chromium, and lead which exceed the respective FPDWSs, as well as an elevated level of one VOC. The groundwater contamination detected in this area is Likely the result of a surface spill of radium-containing paint or other materials associated with activities in former Building 709. The shallow groundwater samples collected in the north-central portion of the site exhibited concentrations of arsenic and lead exceeding the respective FPDWSs, as well as elevated levels of TRPHs, total xylenes, and phenols. The groundwater contamination detected in this area is likely the result of activities associated with the former carburetor shop, degreaser, and cleaning tank which were located in this portion of former Building 709.

Although the shallow surficial zone of the Sand-and-Gravel Aquifer appears to be impacted in these areas on Site 27, no significant levels of any potential contaminants were detected in the groundwater samples from the deeper, main producing zone.

Further assessment activities are required at Site 27.

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6. FLORIDA PROFESSIONAL GEOLOGIST SEAL

I hereby affix my seal to the Interim Data Report for the Radium Dial Shop Sewer (Site 27), 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 EMISSIONS DATA

SITE 27 SURFACE EMISSIONS SURVEY

COORDINATE LOCATION	OVA BACKGROUND (ppm)	OVA ABOVE BACKGROUND (ppm)
BACKGROUND	3.2	0.0
N0+00E0+00	3.2	0.0
N0+00E0+25	3.2	0.0
N0+00E0+50	3.2	0.0
N0+00E0+75	3.2	0.0
N0+00E1+00	3.2	0.0
N0+00E1+25	3.2	0.0
N0+00E1+50	3.2	0.0
N0+00E1+75	3.2	0.0
N0+00E2+00	3.2	0.0
N0+00E2+25	3.2	0.0
N0+00E2+50	3.2	0.0
N0+00E2+75	3.2	0.0
N0+00E3+00	3.2	3.0
N0+00E3+25	3.2	1.0
N0+00E3+50	3.2	0.0
N0+25E0+00	3.2	0.0
N0+25E0+25	3.2	0.0
N0+25E0+50	3.2	0.0
N0+25E0+75	3.2	0.0
N0+25E1+00	3.2	0.0
N0+25E1+25	3.2	0.0
N0+25E1+50	3.2	0.0
N0+25E1+75	3.2	0.0
N0+25E2+00	3.2	0.0
N0+25E2+25	3.2	0.0
N0+25E2+50	3.2	0.0
N0+25E2+75	3.2	0.0
N0+25E3+00	3.2	0.0
N0+25E3+25	3.2	0.0
N0+25E3+50	3.2	0.0
N0+50E0+00	3.2	0.0
N0+50E0+25	3.2	0.0
N0+50E0+50	3.2	0.0
N0+50E0+75	3.2	0.0
N0+50E1+00	3.2	0.0
N0+50E1+25	3.2	0.0
N0+50E1+50	3.2	0.0
N0+50E1+75	3.2	0.0
N0+50E2+00	3.2	0.0
N0+50E2+25	3.2	0.0
N0+50E2+50	3.2	0.0
N0+50E2+75	3.2	0.0
N0+50E3+00	3.2	0.0
N0+50E3+25	3.2	0.0

SITE 27 SURFACE EMISSIONS SURVEY

COORDINATE LOCATION	OVA BACKGROUND (ppm)	OVA ABOVE BACKGROUND (ppm)
N0+50E3+50	3.2	0.0
N0+50E3+50	3.2	0.0
N0+75E0+00	3.2	0.0
N0+75E0+25	3.2	0.0
N0+75E0+50	3.2	0.0
N0+75E0+75	3.2	0.0
N0+75E1+00	3.2	0.0
N0+75E1+25	3.2	0.0
N0+75E1+50	3.2	0.0
N0+75E1+75	3.2	0.0
N0+75E2+00	3.2	0.0
N0+75E2+25	3.2	0.0
N0+75E2+50	3.2	0.0
N0+75E2+75	3.2	0.0
N0+75E3+00	3.2	0.0
N0+75E3+25	3.2	0.0
N0+75E3+50	3.2	0.0
N0+75E3+50	3.2	0.0
N1+00E0+00	3.2	0.0
N1+00E0+25	3.2	0.0
N1+00E0+50	3.2	0.0
N1+00E0+75	3.2	0.0
N1+00E1+00	3.2	0.0
N1+00E1+25	3.2	0.0
N1+00E1+50	3.2	0.0
N1+00E1+75	3.2	0.0
N1+00E2+00	3.2	0.0
N1+00E2+25	3.2	0.0
N1+00E2+50	3.2	0.0
N1+00E2+75	3.2	0.0
N1+00E3+00	3.2	0.0
N1+00E3+25	3.2	0.0
N1+00E3+50	3.2	0.0
N1+00E3+75	3.2	0.0
N1+00E4+00	1.0	0.0
N1+00E4+25	1.0	0.0
N1+25E0+00	3.2	0.0
N1+25E0+25	3.2	0.0
N1+25E0+50	3.2	0.0
N1+25E0+75	3.2	0.0
N1+25E1+00	3.2	0.0
N1+25E1+25	3.2	0.0
N1+25E1+50	3.2	0.0
N1+25E1+75	3.2	0.0
N1+25E2+00	3.2	0.0

SITE 27 SURFACE EMISSIONS SURVEY

COORDINATE LOCATION	OVA BACKGROUND (ppm)	OVA ABOVE BACKGROUND (ppm)
N1+25E2+25	3.2	0.0
N1+25E2+50	3.2	0.0
N1+25E2+75	3.2	0.0
N1+25E3+00	3.2	0.0
N1+25E3+25	3.2	0.0
N1+25E3+50	3.2	0.0
N1+25E3+75	3.2	0.0
N1+25E4+00	1.0	0.0
N1+25E4+25	1.0	0.0
N1+50E0+00	3.2	0.0
N1+50E0+25	3.2	0.0
N1+50E0+50	3.2	0.0
N1+50E0+75	3.2	0.0
N1+50E1+00	3.2	0.0
N1+50E1+25	3.2	0.0
N1+50E1+50	3.2	0.0
N1+50E1+75	3.2	0.0
N1+50E2+00	3.2	0.0
N1+50E2+25	3.2	0.0
N1+50E2+50	3.2	0.0
N1+50E2+75	3.2	0.0
N1+50E3+00	3.2	0.0
N1+50E3+25	3.2	0*0
N1+50E3+50	3.2	0.0
N1+50E3+75	3.2	0.0
N1+50E4+00	1.0	0.0
N1+75E0+00	3.2	0.0
N1+75E0+25	3.2	0.0
N1+75E0+50	3.2	0.0
N1+75E0+75	3.2	0.0
N1+75E1+00	3.2	0.0
N1+75E1+25	3.2	0.0
N1+75E1+50	3.2	0.0
N1+75E1+75	3.2	0.0
N1+75E2+00	3.2	0.0
N1+75E2+25	3.2	0.0
N1+75E2+50	3.2	0.0
N1+75E2+75	3.2	0.0
N1+75E3+00	3.2	0.0
N1+75E3+25	3.2	0.0
N1+75E3+50	3.2	0.0
N1+75E3+75	3.2	0.0
N1+75E4+00	1.0	0.0
N2+00E0+00	3.2	0.0
N2+00E0+25	3.2	0.0

SITE 27 SURFACE EMISSIONS SURVEY

COORDINATE LOCATION	OVA BACKGROUND (ppm)	OVA ABOVE BACKGROUND (ppm)
N2+00E0+50	3.2	0.0
N2+00E0+75	3.2	0.0
N2+00E1+00	3.2	0.0
N2+00E1+25	3.2	0.0
N2+00E1+50	3.2	0.0
N2+00E1+75	3.2	0.0
N2+00E2+00	3.2	0.0
N2+00E2+25	3.2	0.0
N2+00E2+50	3.2	0.0
N2+00E2+75	3.2	0.0
N2+00E3+00	3.2	0.0
N2+00E3+25	3.2	0.0
N2+00E3+50	3.2	0.0
N2+00E3+75	3.2	0.0
N2+00E4+00	1.0	0.0
N2+00E4+25	1.0	0.0
N2+25E0+00	3.2	0.0
N2+25E0+25	3.2	0.0
N2+25E0+50	3.2	0.0
N2+25E0+75	3.2	0.0
N2+25E1+00	3.2	0.0
N2+25E1+25	3.2	0.0
N2+25E1+50	3.2	0.0
N2+25E1+75	3.2	0.0
N2+25E2+00	3.2	0.0
N2+25E2+25	3.2	0.0
N2+25E2+50	3.2	0.0
N2+25E2+75	3.2	0.0
N2+25E3+00	3.2	0.0
N2+25E3+25	3.2	0.0
N2+25E3+50	3.2	0.0
N2+25E3+75	3.2	0.0
N2+25E4+00	1.0	0.0
N2+25E4+25	1.0	0.0
N2+50E0+00	3.2	0.0
N2+50E0+25	3.2	0.0
N2+50E0+50	3.2	0.0
N2+50E0+75	3.2	0.0
N2+50E1+00	3.2	0.0
N2+50E1+25	3.2	0.0
N2+50E1+50	3.2	0.0
N2+50E1+75	3.2	0.0
N2+50E2+00	3.2	0.0
N2+50E2+25	3.2	0.0
N2+50E2+50	3.2	0.0

SITE 27 SURFACE EMISSIONS SURVEY

COORDINATE LOCATION	OVA BACKGROUND (ppm)	OVA ABOVE BACKGROUND (ppm)
N2+50E2+75	3.2	0.0
N2+50E3+00	3.2	0.0
N2+50E3+25	3.2	0.0
N2+50E3+50	3.2	0.0
N2+50E3+75	3.2	0.0
N2+50E4+00	1.0	0.0
N2+50E4+25	1.0	0.0
N2+75E0+00	3.2	0.0
N2+75E0+25	3.2	0.0
N2+75E0+50	3.2	0.0
N2+75E0+75	3.2	0.0
N2+75E1+00	3.2	0.0
N2+75E1+25	3.2	0.0
N2+75E1+50	3.2	0.0
N2+75E1+75	3.2	0.0
N2+75E2+00	3.2	0.0
N2+75E2+00	3.2	0.0
N2+75E2+50	3.2	0.0
N2+75E2+75	3.2	0.0
N2+75E3+00	3.2	0.0
N2+75E3+25	3.2	0.0
N2+75E3+50	3.2	0.0
N2+75E3+75	3.2	0.0
N2+75E4+00	1.0	0.0
N2+75E4+25	1.0	0.0
N3+00E0+00	3.2	0.0
N3+00E0+25	3.2	0.0
N3+00E0+50	3.2	0.0
N3+00E0+75	3.2	0.0
N3+00E1+00	3.2	0.0
N3+00E1+25	3.2	0.0
N3+00E1+50	3.2	0.0
N3+00E1+75	3.2	0.0
N3+00E2+00	3.2	0.0
N3+00E2+25	3.2	0.0
N3+00E2+50	3.2	0.0
N3+00E2+75	3.2	0.0
N3+00E3+00	3.2	0.0
N3+00E3+25	3.2	0.0
N3+00E3+50	3.2	0.0
N3+00E3+75	3.2	0.0
N3+00E4+00	1.0	0.0
N3+00E4+25	1.0	0.0
N3+25E0+00	1.0	0.0
N3+25E0+25	1.0	0.0

SITE 27 SURFACE EMISSIONS SURVEY

COORDINATE LOCATION	OVA BACKGROUND (ppm)	OVA ABOVE BACKGROUND (ppm)
N3+25E0+50	1.0	1.1
N3+25E0+75	1.0	1.1
N3+25E1+00	1.0	0.0
N3+25E1+25	1.0	0.0
N3+25E1+50	1.0	0.0
N3+25E1+75	1.0	0.0
N3+25E2+00	1.0	0.0
N3+25E2+25	1.0	0.0
N3+25E2+50	1.0	0.0
N3+25E2+75	1.0	0.0
N3+25E3+00	1.0	0.0
N3+25E3+25	1.0	0.0
N3+25E3+50	1.0	0.0
N3+25E3+75	1.0	0.0
N3+25E4+00	1.0	0.0
N3+25E4+25	1.0	0.0
N3+50E0+00	1.0	0.0
N3+50E0+25	1.0	0.0
N3+50E0+50	1.0	0.0
N3+50E0+75	1.0	0.0
N3+50E1+00	1.0	0.0
N3+50E1+25	1.0	0.0
N3+50E1+50	1.0	0.0
N3+50E1+75	1.0	0.0
N3+50E2+00	1.0	0.0
N3+50E2+25	1.0	0.0
N3+50E2+50	1.0	0.0
N3+50E2+75	1.0	0.0
N3+50E3+00	1.0	0.0
N3+50E3+25	1.0	0.0
N3+50E3+50	1.0	1.3
N3+50E3+75	1.0	0.0
N3+50E4+00	1.0	0.0
N3+50E4+25	1.0	0.0

APPENDIX B

PARTICULATE AIR SCREENING DATA

SITE 27

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: 0.17 mg/m^3

Downwind Location: Northwest corner of site
Measurement Duration: 5 minutes
Time Weighted Average Particulate Concentration: 0.14 mg/m^3

Upwind/Downwind Difference: 0.03 mg/m^3

APPENDIX C

RADIATION SURVEY DATA

SITE 27 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	4500	30000	4800	32000	0.6
N0+00E0+25	4600	30667	4800	32000	0.7
N0+00E0+50	3400	22667	3500	23333	0.5
N0+00E0+75	3600	24000	3700	24667	0.5
N0+00E1+00	6200	41333	7000	46667	0.9
N0+00E1+25	3300	22000	3100	20667	0.6
N0+00E1+50	4100	27333	4000	26667	0.6
N0+00E1+75	7000	46667	7300	48667	1.4
N0+00E2+00	6200	41333	5700	38000	1.0
N0+00E2+25	57000	380000	58000	386667	1.2
N0+00E2+50	4500	30000	3400	22667	1.0
N0+00E2+75	3100	20667	3350	22333	0.6
N0+00E3+00	10000	66667	13000	86667	1.2
N0+00E3+25	3600	24000	3700	24667	0.5
N0+00E3+50	4300	28667	4500	30000	0.6
N0+25E0+00	3000	20000	2600	17333	0.5
N0+25E0+25	3000	20000	3300	22000	0.5
N0+25E0+50	3400	22667	3300	22000	0.5
N0+25E0+75	3300	22000	3800	25333	0.6
N0+25E1+00	4400	29333	3600	24000	0.7
N0+25E1+25	4500	30000	4700	31333	0.5
N0+25E1+50	4900	32667	5100	34000	0.8
N0+25E1+75	5500	36667	6500	43333	0.9
N0+25E2+00	6300	42000	5600	37333	1.1
N0+25E2+25	5200	34667	3300	22000	1.4
N0+25E2+50	3800	25333	4200	28000	0.5
N0+25E2+75	3600	24000	3600	24000	0.5
N0+25E3+00	3400	22667	3300	22000	0.8
N0+25E3+25	3800	25333	3800	25333	0.9
N0+25E3+50	5000	33333	4800	32000	0.9
N0+50E0+00	3300	22000	3200	21333	0.5
N0+50E0+25	3100	20667	3100	20667	0.4
N0+50E0+50	3100	20667	3200	21333	0.5
N0+50E0+75	2900	19333	3000	20000	0.3
N0+50E1+00	3100	20667	3400	22667	0.5
N0+50E1+25	3500	23333	3300	22000	0.4
N0+50E1+50	3500	23333	3500	23333	0.5
N0+50E1+75	3600	24000	3400	22667	0.6
N0+50E2+00	3300	22000	3500	23333	0.7
N0+50E2+25	3200	21333	3300	22000	0.6
N0+50E2+50	3200	21333	3200	21333	0.6
N0+50E2+75	2600	17333	3000	20000	0.4
N0+50E3+00	3100	20667	3400	22667	0.6
N0+50E3+25	3500	23333	3500	23333	0.8

SITE 27 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)
N0+50E3+50	4600	30667	5000	33333	0.8
N0+50E3+50	5800	38667	6000	40000	1.1
N0+75E0+00	3600	24000	4000	26667	1.2
N0+75E0+25	2600	17333	2600	17333	0.5
N0+75E0+50	3000	20000	3000	20000	0.4
N0+75E0+75	3300	22000	3400	22667	0.6
N0+75E1+00	3000	20000	3200	21333	0.6
N0+75E1+25	3200	21333	3500	23333	0.5
N0+75E1+50	3400	22667	3400	22667	0.6
N0+75E1+75	3200	21333	3200	21333	0.5
N0+75E2+00	3100	20667	3300	22000	0.6
N0+75E2+25	3300	22000	3300	22000	0.6
N0+75E2+50	3400	22667	3300	22000	0.5
N0+75E2+75	2700	'18000	2800	18667	0.6
N0+75E3+00	3100	20667	3100	20667	0.5
N0+75E3+25	2900	19333	2800	18667	0.4
N0+75E3+50	5300	35333	5000	33333	1.1
N0+75E3+50	5600	37333	5800	38667	1.0
N1+00E0+00	7000	46667	10000	66667	1.6
N1+00E0+25	3200	21333	3200	21333	0.5
N1+00E0+50	3350	22333	3000	20000	0.5
N1+00E0+75	2800	18667	3100	20667	0.5
N1+00E1+00	3000	20000	3100	20667	0.4
N1+00E1+25	3300	22000	3200	21333	0.5
N1+00E1+50	3400	22667	3750	25000	0.6
N1+00E1+75	3100	20667	3400	22667	0.5
N1+00E2+00	3200	21333	3300	22000	0.5
N1+00E2+25	3200	21333	3300	22000	0.5
N1+00E2+50	3600	24000	3500	23333	0.4
N1+00E2+75	3200	21333	3600	24000	0.6
N1+00E3+00	2800	18667	2700	18000	0.4
N1+00E3+25	3000	20000	3200	21333	0.5
N1+00E3+50	4300	28667	4700	31333	0.7
N1+00E3+75	3400	22667	3900	26000	1.0
N1+00E4+00	3800	25333	3800	25333	0.4
N1+00E4+25	4700	31333	5000	33333	0.9
N1+25E0+00	8200	54667	13000	86667	1.8
N1+25E0+25	3200	21333	3200	21333	0.7
N1+25E0+50	3000	20000	3100	20667	0.5
N1+25E0+75	2800	18667	2700	18000	0.3
N1+25E1+00	3000	20000	3000	20000	0.4
N1+25E1+25	3300	22000	3000	20000	0.4
N1+25E1+50	3450	23000	3350	22333	0.5
N1+25E1+75	3200	21333	3100	20667	0.4
N1+25E2+00	3400	22667	3200	21333	0.5

SITE 27 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+25E0+75	2800	18667	2700	18000	0.3
N1+25E1+00	3000	20000	3000	20000	0.4
N1+25E1+25	3300	22000	3000	20000	0.4
N1+25E1+50	3450	23000	3350	22333	0.5
N1+25E1+75	3200	21333	3100	20667	0.4
N1+25E2+00	3400	22667	3200	21333	0.5
N1+25E2+25	3200	21333	3200	21333	0.6
N1+25E2+50	3300	22000	3200	21333	0.5
N1+25E2+75	3000	20000	3000	20000	0.5
N1+25E3+00	2600	17333	2900	19333	0.5
N1+25E3+25	3200	21333	3200	21333	0.5
N1+25E3+50	4400	29333	4500	30000	0.7
N1+25E3+75	3400	22667	3500	23333	0.8
N1+25E4+00	3400	22667	3500	23333	0.3
N1+25E4+25	5200,	34667	5800	38667	0.8
N1+40E0+00	-	- *	13000	86667	2.3
N1+50E0+00	5800	38667	5400	36000	1.0
N1+50E0+25	3000	20000	3000	20000	0.6
N1+50E0+50	3300	22000	3300	22000	0.5
N1+50E0+75	3300	22000	3200	21333	0.5
N1+50E1+00	2800	18667	2900	19333	0.4
N1+50E1+25	3200	21333	3100	28667	0.5
N1+50E1+50	3300	22000	3300	22000	0.4
N1+50E1+75	3200	21333	3300	22000	0.8
N1+50E2+00	3300	22000	3400	22667	0.6
N1+50E2+25	3200	21333	3300	22000	0.5
N1+50E2+50	3200	21333	3300	22000	0.7
N1+50E2+75	2700	18000	3100	20667	0.5
N1+50E3+00	3400	22667	3200	21333	0.7
N1+50E3+25	2800	18667	2900	19333	0.5
N1+50E3+50	3300	22000	3800	25333	0.5
N1+50E3+75	2900	19333	2950	19667	0.5
N1+50E4+00	3700	24667	3300	22000	0.9
N1+75E0+00	5400	36000	5400	36000	0.9
N1+75E0+25	3400	22667	3200	21333	0.5
N1+75E0+50	3300	22000	3300	22000	0.5
N1+75E0+75	2900	19333	3200	21333	0.5
N1+75E1+00	3050	20333	2800	18667	0.4
N1+75E1+25	3200	21333	3400	22667	0.5
N1+75E1+50	3500	23333	3600	24000	0.5
N1+75E1+75	3200	21333	3100	20667	0.5
N1+75E2+00	3200	21333	3500	23333	0.5
N1+75E2+25	3100	20667	3100	20667	0.5
N1+75E2+50	3200	21333	3400	22667	0.5
N1+75E2+75	3100	20667	3400	22667	0.5

* Reading not taken.

SITE 27 RADIATION SURVEY DATA

COORDINATE LOCATION	ESP-2 1 METER GROSS CPH	ESP-2 1 HETER GROSS DPM	ESP-2 SURFACE GROSS CPM	ESP-2 SURFACE GROSS DPH	HICROANALYST 1 METER (uR/h)
N2+00E0+50	3000	20000	3100	20667	0.4
N2+00E0+75	3100	20667	3200	21333	0.5
N2+00E1+00	3200	21333	3500	23333	0.4
N2+00E1+25	3300	22000	3300	22000	0.5
N2+00E1+50	3300	22000	3000	20000	0.5
N2+00E1+75	3600	24000	3300	22000	0.5
N2+00E2+00	3600	24000	3600	24000	0.5
N2+00E2+25	2900	19333	2900	19333	0.5
N2+00E2+50	3200	21333	3000	20000	0.4
N2+00E2+75	3300	22000	3200	21333	0.5
N2+00E3+00	3000	20000	3200	21333	0.5
N2+00E3+25	3100	20667	3250	21667	0.5
N2+00E3+50	2500	16667	2900	19333	0.6
N2+00E3+75	2200	14667	2200	14667	0.5
N2+00E4+00	3500	23333	3600	24000	0.7
N2+00E4+25	3000	20000	3100	20667	0.5
N2+25E0+00	4600	30667	5100	34000	0.8
N2+25E0+25	3500	23333	3200	21333	0.5
N2+25E0+50	3300	22000	3300	22000	0.5
N2+25E0+75	3050	20333	3300	22000	0.5
N2+25E1+00	3000	20000	3200	21333	0.4
N2+25E1+25	3850	25667	3600	24000	0.7
N2+25E1+50	3600	24000	3100	20667	0.5
N2+25E1+75	2600	17333	2800	18667	0.5
N2+25E2+00	3400	22667	3600	24000	0.6
N2+25E2+25	3500	23333	3400	22667	0.5
N2+25E2+50	3500	23333	3600	24000	0.4
N2+25E2+75	3100	20667	3300	22000	0.7
N2+25E3+00	3600	24000	3300	22000	0.6
N2+25E3+25	3300	22000	3100	20667	0.5
N2+25E3+50	2800	18667	2800	18667	0.7
N2+25E3+75	2400	16000	2350	15667	0.4
N2+25E4+00	3000	20000	3100	20667	0.6
N2+25E4+25	3500	23333	3000	20000	0.6
N2+50E0+00	4700	31333	4600	30667	0.5
N2+50E0+25	3700	24667	3900	26000	0.5
N2+50E0+50	4100	27333	4000	26667	0.6
N2+50E0+75	4900	32667	4000	26667	0.6
N2+50E1+00	4000	26667	4200	28000	0.8
N2+50E1+25	7300	48667	8600	57333	1.3
N2+50E1+50	8200	54667	9000	60000	1.6
N2+50E1+75	3300	22000	3000	20000	0.7
N2+50E2+00	3000	20000	3200	21333	0.7
N2+50E2+25	4400	29333	4300	28667	1.0
N2+50E2+50	4100	27333	3800	25333	0.5

SITE 27 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+50E2+75	4000	22667	3700	24667	0.6
N2+50E3+00	7000	46667	8300	55333	1.5
N2+50E3+25	3500	23333	3200	21333	0.6
N2+50E3+50	2800	18667	3200	21333	0.7
N2+50E3+75	2300	15333	2500	16667	0.4
N2+50E4+00	3100	20667	3100	20667	1.0
N2+50E4+25	6300	42000	7000	46667	1.1
N2+75E0+00	5600	37333	5700	38000	0.7
N2+75E0+25	4000	26667	3000	20000	0.4
N2+75E0+50	4500	30000	3500	23333	0.6
N2+75E0+75	8800	58667	9900	66000	1.5
N2+75E1+00	4400	29333	4200	28000	0.6
N2+75E1+25	7600	50667	9200	61333	1.3
N2+75E1+50	7800	52000	7800	52000	1.8
N2+75E1+75	4500	30000	3500	23333	1.0
N2+75E2+00	4200	28000	4000	26667	0.8
N2+75E2+00	7000	46667	7700	51333	1.1
N2+75E2+50	4200	28000	3400	22667	0.4
N2+75E2+75	4900	32667	4100	27333	0.9
N2+75E3+00	7800	52000	9200	61333	1.6
N2+75E3+25	5900	39333	5700	38000	1.0
N2+75E3+50	3800	25333	2900	19333	1.0
N2+75E3+75	4800	32000	4200	28000	1.0
N2+75E4+00	7300	48667	7700	51333	1.8
N2+75E4+25	8000	53333	8900	59333	1.5
N3+00E0+00	6600	44000	6900	46000	1.3
N3+00E0+25	7800	52000	10000	66667	1.5
N3+00E0+50	8300	55333	9000	60000	1.2
N3+00E0+75	8200	54667	8500	56667	1.2
N3+00E1+00	8400	56000	9300	62000	1.3
N3+00E1+25	7100	47333	8200	54667	1.4
N3+00E1+50	7100	47333	6700	44667	1.0
N3+00E1+75	8000	53333	9000	60000	1.8
N3+00E2+00	7500	50000	8000	53333	1.5
N3+00E2+25	8200	54666	8400	56000	1.3
N3+00E2+50	7800	52000	8300	55333	1.3
N3+00E2+75	7200	48000	8000	53333	1.2
N3+00E3+00	8000	53333	7700	51333	1.5
N3+00E3+25	7600	50667	8300	55333	1.7
N3+00E3+50	7500	50000	7700	51333	1.7
N3+00E3+75	8000	53333	8800	58667	1.7
N3+00E4+00	6800	45333	7600	50667	1.5
N3+00E4+25	5900	39333	6000	40000	1.6
N3+25E0+00	4400	29333	4500	30000	0.6
N3+25E0+25	6000	40000	5000	33333	1.4

SITE 27 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)
N3+25E0+50	8200	54667	8400	56000	2.0
N3+25E0+75	7700	51333	8500	56667	1.8
N3+25E1+00	8400	56000	8500	56667	1.8
N3+25E1+25	7200	48000	7500	50000	1.9
N3+25E1+50	7000	46667	7500	50000	1.5
N3+25E1+75	6000	40000	5000	33333	1.0
N3+25E2+00	6700	44667	5500	36667	1.0
N3+25E2+25	7800	52000	7600	50667	1.5
N3+25E2+50	7500	50000	7400	49333	1.6
N3+25E2+75	8600	57333	8000	53333	1.6
N3+25E3+00	8500	56667	8000	53333	2.0
N3+25E3+25	8000	53333	8700	58000	1.6
N3+25E3+50	8200	54667	9000	60000	1.4
N3+25E3+75	8000	53333	7800	52000	1.6
N3+25E4+00	4800	32000	5000	33333	1.1
N3+25E4+25	3500	23333	3200	21333	0.6
N3+50E0+00	7000	46667	8000	53333	1.4
N3+50E0+25	7000	46667	8000	53333	1.3
N3+50E0+50	6800	45333	7000	46667	1.3
N3+50E0+75	6100	40667	6000	40000	1.2
N3+50E1+00	5300	35333	5500	36667	1.0
N3+50E1+25	5500	36667	5600	37333	1.5
N3+50E1+50	5100	34000	5300	35333	0.8
N3+50E1+75	6000	40000	6000	40000	1.2
N3+50E2+00	5800	38667	5800	38667	1.2
N3+50E2+25	5400	36000	5500	36667	1.1
N3+50E2+50	5300	35333	5300	35333	1.2
N3+50E2+75	6300	42000	5400	36000	1.5
N3+50E3+00	7000	46667	7300	48667	1.2
N3+50E3+25	6000	40000	7000	46667	1.4
N3+50E3+50	6800	45333	7200	48000	1.3
N3+50E3+75	4800	32000	5000	33333	1.3
N3+50E4+00	4800	32000	4900	32667	0.9
N3+50E4+25	3500	23333	3700	24667	0.5

APPENDIX D

TEMPORARY HONITORING WELL, SOIL BORING, AND LITHOLOGIC INFORMATION

SOIL BORING/TEMPORARY HONITORING WELL INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B001
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/25/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
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- 0.2	Dark grey, sandy fill and humus.
0.2- 0.3	Red-brown, clayey, sandy fill.
0.3- 8.0	Hedium tan sand, medium to medium coarse grained.
8.0- 10.0	Light tan sand, medium to medium coarse grained.
10.0- 15.0	Pale tan sand, medium to coarse grained.
15.0- 20.0	Pale tan-cream 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 INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B016
3) Drilling firm: Griner Drilling Service
4) Drilling method: HA
5) Date drilled/installed: 06/22/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 15
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 groundvater sampled:
18) pH (units): NA
19) Temperature (degrees C): NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Grouted with concrete.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.2	Dark brown sand, medium-coarse grained.
0.2- 2.0	Hedium tan sand, medium to coarse grained.
2.0- 2.5	Hedium grey sand, medium-coarse grained.
2.5- 14.0	Hedium tan sand, medium to coarse grained.
14.0- 15.0	Pale tan sand, medium to coarse grained. Wet 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 INPORXATION

1) Site no.: 27
2) Boring no./Well no.: P27B003/P27TW003
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/24/91
6) Geologist: DAN POSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 16
9) Highest open-borehole OVA/HNu reading (ppm): 0
10) Depth of well (BLS): 18.98
11) Length of well screen: 5
12) Length of casing (BLS): 13.98
13) Approx. height of casing above land surface: 1.02
14) Depth to water in well (BTOC): 16.56
15) Elevation of TOC: 25.53
16) Water level elevation: 8.97
17) Date groundwater sampled: 06/28/91
18) pH (units): 6.8
19) Temperature (degrees C): 25
20) Specific conductance (umhos/cm): 195
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.2	Dark brownish-grey, shelly sand.
0.2- 6.5	Medium tan sand, medium to medium coarse grained.
6.5- 15.0	Pale tan sand, medium to coarse grained.
15.0- 20.0.	Pale tan to cream 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 INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B018
3) Drilling firm: Ecology and Environment
4) Drilling method: HA
5) Date drilled/installed: 08/26/91
6) Geologist: AMY TWITTY
7) Depth of boring (BLS): 17
8) Depth to water in borehole (BLS): 17
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- 0.2	Asphalt.
0.2- 0.5	Reddish-brown, silty sand.
0.5- 5.0	Yellow-brown sand, fine to medium grained.
5.0- 10.0	Light yellow-brown sand, fine to medium grained.
10.0- 13.0	Medium yellow-brown sand, medium grained.
13.0- 17.0	Light tan to off-white sand, medium to coarse grained. Wet at 17 ft.

Notes: All depths, lengths, heights, and elevations are measured in feet. All boreholes are 4 inches in diameter. All well casings and screens arc 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.: 27
2) Boring no./Well no.: P27B005
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/21/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 17
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- 1.0	Dark brown, sandy fill with shell fragments.
1.0- 3.0	Medium tan to brown sand, medium to coarse grained.
3.0- 5.5	Medium tan sand, medium to coarse grained.
5.5- 15.0	Light tan sand, medium to coarse grained.
15.0- 20.0	Pale tan sand, medium to coarse grained. Wet at 17 ft.

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

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

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

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B020
3) Drilling firm: Ecology and Environment
4) Drilling method: HA
5) Date drilled/installed: 08/27/91
6) Geologist: AHY TWITTY
7) Depth of boring (BLS): 14.3
8) Depth to water in borehole (BLS): 14.3
9) Highest open-borehole OVA/HNu reading (ppm): 0.1
10) Depth of well (BLS): NA
11) Length of well screen: NA
12) Length of casing (BLS): NA
13) Approx. height of casing above land surface: NA
14) Depth to water in well (BTOC): NA
15) Elevation of TOC: NA
16) Water level elevation: NA
17) Date groundwater sampled:
18) pH (units): NA
19) Temperature (degrees C): NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.3	Gravel and shell fragments.
0.3- 0.5	Asphalt.
0.5- 1.0	Reddish-brown silty sand.
1.0- 3.0	Yellow-brown sand, fine to medium grained, becomes mottled with grey-brown sand at 2 ft.
3.0- 8.0	Yellow brown sand, medium grained with organic, root layer at 5 ft, approximately 2 inches thick.
8.0- 11.0	Light yellow-brown sand, medium grained.
11.0-14.3	Light tan to white sand, medium to coarse grained. Wet at 14.3 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.: 27
2) Boring no./Well no.: P27B007
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/21/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 14.75
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- 0.2	Shelly, sandy fill.
0.2- 0.4	Reddish-brown, sandy, clayey fill.
0.4- 5.0	Medium brown to medium tan-brown sand, medium to coarse grained.
5.0- 8.0	Medium to light tan-brown, medium to coarse grained.
8.0- 15.0	Pale tan to pale cream 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 INFORHATION

1) Site no.: 27
2) Boring no./Well no.: P27BO14
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/22/91
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- 0.2	Grey-brown, shelly, sandy fill.
0.2- 0.25	Dark brown, very slighty silty sand fill.
0.25- 8.0	Medium tan sand, medium to coarse grained.
8.0- 10.0	Light tan sand, medium to coarse grained.
10.0- 15.0	Pale cream-tan 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.: 27
2) Boring no./Well no.: P27B009
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/24/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 17
9) Highest open-borehole OVA/HNu reading (ppm): 18
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	Concrete.
0.4- 8.5	Medium tan sand, medium to medium coarse grained.
8.5- 12.0	Pale tan sand, medium to coarse grained.
12.0- 20.0	Pale cream sand, medium to coarse grained. Wet at 17 it.

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 HONITORING WELL INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B012
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/21/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 17.75
9) Highest open-borehole OVA/HNu reading (ppm): 3.0
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	Concrete.
0.5- 2.0	Medium tan to brown sand, medium to coarse grained.
2.0- 10.5	Medium tan sand, medium to coarse grained.
10.5- 20.0	Pale tan sand, medium to coarse grained. Wet at 17.75 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 YELL INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B011
3) Drilling firm: Griner Drilling service
4) Drilling method: SSA
5) Date drilled/installed: 06/22/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 16
9) Highest open-borehole OVA/HNu reading (ppm): 980
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	Concrete.
0.4- 10.0	Medium tan sand, medium to coarse grained.
10.0- 15.0	Pale tan-cream sand, medium to coarse grained.
15.0- 20.0	Pale cream 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 INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B010/P27TW010
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/22/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 16
9) Highest open-borehole OVA/HNu reading (ppm): 600
10) Depth of well (BLS): 19.02
11) Length of well screen: 5
12) Length of casing (BLS): 14.02
13) Approx. height of casing above land surface: 0.72
14) Depth to water in well (BTOC): 17.44
15) Elevation of TOC: 26.24
16) Water level elevation: 8.80
17) Date groundwater sampled: 06/24/91
18) pH (units): 6
19) Temperature (degrees C): 25
20) Specific conductance (umhos/cm): 170
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.4	Concrete.
0.4- 10.0	Medium tan sand, medium to medium-coarse grained.
10.0- 20.0	Pale tan to cream 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 INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B013
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/21/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 17.75
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 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	Concrete.
0.4- 10.0	Medium tan sand, medium to coarse grained.
10.0- 15.0	Pale tan sand, medium grained.
15.0- 20.0	Pale cream sand, medium to coarse grained. Wet at 17.75 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
EA = hand auger
NR = No Reading

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

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B008/P27TW008
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilledfinstalled: 06/25/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 16
9) Highest open-borehole OVA/HNu reading (ppm): 0
10) Depth of well (BLS): 19.48
11) Length of well screen: 5
12) Length of casing (BLS): 14.48
13) Approx. height of casing above land surface: 0.60
14) Depth to water in well (BTOC): 16.38
15) Elevation of TOC: 25.66
16) Water level elevation: 9.28
17) Date groundwater sampled: 06/28/91
18) pH (units): 6.8
19) Temperature (degrees C): 24
20) Specific conductance (umhos/cm): 195
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.1	Dark grey-brown, organic-rich sandy fill.
0.1- 5.0	Medium tan sand, medium to medium coarse grained.
5.0- 10.0	Light tan sand, medium to coarse grained.
10.0- 11.5	Pale tan sand, medium to coarse grained.
11.5- 20.0	Pale cream 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 INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B019
3) Drilling firm: Ecology and Environment
4) Drilling method: HA
5) Date drilled/installed: 08/26/91
6) Geologist: AMY TWITTY
7) Depth of boring (BLS): 15
8) Depth to water in borehole (BLS): 15
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- 0.2	Asphalt.
0.2- 1.0	Red silty, clayey sand.
1.0- 11.0	Medium ellow-brown, slightly silty sand with some dark brownis{-grey mottling at 2 ft.
11.0- 13.0	Light yellow-brown to cream sand, medium grained, becomes off-white at 13 ft. Wet at 15 ft.
13.0- 15.0	Off-white sand, medium grained. Wet 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 YELL INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B006
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/21/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 17
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- 0.25	Light grey-brown, sandy fill with shell fragments.
0.25- 0.3	Reddish-brown, sandy, clayey fill.
0.3- 5.0	Hedium tan-brown sand, medium grained.
5.0- 6.0	Medium tan sand, medium grained.
6.0- 20.0	Pale tan sand, medium to coarse grained. Wet at 17 ft.

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

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

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

SOIL BORING/TEMPORARY MONITORING WELL INFORMATION

1) Site no.: 27
2) Boring no./Well no.: P27B017/P27TW017
3) Drilling firm: Ecology and Environment
4) Drilling method: HA
5) Date drilled/installed: 08/27/91
6) Geologist: AMY TWITTY
7) Depth of boring (BLS): 19
8) Depth to water in borehole (BLS): 15.3
9) Highest open-borehole OVA/HNu reading (ppm): 0
10) Depth of well (BLS): 16.16
11) Length of well screen: 5
12) Length of casing (BLS): 11.16
13) Approx. height of casing above land surface: 3.84
14) Depth to water in well (BTOC): 19.27
15) Elevation of TOC: 28.18
16) Water level elevation: 8.91
17) Date groundwater sampled: 08/27/91
18) pH (units): 6.7
19) Temperature (degrees C): 26
20) Specific conductance (umhos/cm): 290
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.25	Asphalt.
0.25- 0.5	Reddish-brown silty clayey sand.
0.5- 2.5	Yellow-brown sand, fine to medium grained.
2.5- 4.0	Yellow-brown sand is mottled with grey-brown sand.
4.0- 8.0	Yellow-brown sand, medium grained with some brick fragments.
8.0- 13.0	Light yellow-brown sand, medium grained.
13.0-19.0	Off white sand, medium to coarse grained. Wet at 15.3 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
N R = No Reading

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

SOIL BORING/TEMPORARY MONITORING WELL INFORHATION

1) Site no.: 27
2) Boring no./Well no.: P27B004
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/24/91
6) Geologist: DAN POSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 16.5
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- 0.2	Medium grey, shelly, sandy fill.
0.2- 0.3	Bright red, sandy clayey fill.
0.3- 8.0	Medium tan sand, medium to coarse grained.
8.0- 10.0	Tan sand, medium to coarse grained.
10.0- 15.0	Pale tan sand, medium to coarse grained.
15.0- 20.0	Pale tan-cream sand, medium to coarse grained. Wet at 16.5 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.: 27
2) Boring no./Well no.: P27BO15/P27TWO15
3) Drilling firm: Griner Drilling Service
4) Drilling method: HA
5) Date drilled/installed: 06/22/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 16
9) Highest open-borehole OVA/HNu reading (ppm): 0
10) Depth of well (BLS): 16.9
11) Length of well screen: 5
12) Length of casing (BLS): 11.9
13) Approx. height of casing above land surface: 2.10
14) Depth to water in well (BTOC): 17.57
15) Elevation of TOC: 25.09
16) Water level elevation: 7.52
17) Date groundwater sampled: 06/25/91
18) pH (units): 6.3
19) Temperature (degrees C): 25
20) Specific conductance (umhos/cm): 80
21) Borehole/Well abandonment method: Grouted with concrete.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sam le De& (BLS)	Sample Description
0- 0.2	Dark brown sand, medium-coarse grained.
0.2- 2.0	Medium tan sand, medium to coarse grained.
2.0- 2.5	Medium grey sand, medium-coarse grained.
2.5- 14.0	Medium tan sand, medium to coarse grained.
14.0- 20.0	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
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.: 27
2) Boring no./Well no.: P27B002
3) Drilling firm: Griner Drilling Service
4) Drilling method: SSA
5) Date drilled/installed: 06/24/91
6) Geologist: DAN FOSS
7) Depth of boring (BLS): 20
8) Depth to water in borehole (BLS): 15.75
9) Highest open-borehole OVA/HNu reading (ppm): 0.1
10) Depth of well (BLS): NA
11) Length of well screen: NA
12) Length of casing (BLS): NA
13) Approx. height of casing above land surface: NA
14) Depth to water in well (BTOC): NA
15) Elevation of TOC: NA
16) Water level elevation: NA
17) Date groundwater sampled:
18) pH (units): NA
19) Temperature (degrees C): NA
20) Specific conductance (umhos/cm): NA
21) Borehole/Well abandonment method: Backfilled with cuttings.
22) Comments:

BOREHOLE LITHOLOGIC LOG

Sample Depth (BLS)	Sample Description
0- 0.2	Medium grey, shelly, sandy fill.
0.2- 0.25	Bright red, sandy, clayey fill.
0.25- 5.5	Medium tan sand, medium to medium coarse grained.
5.5- 10.0	Light tan sand, medium to coarse grained.
10.0- 15.0	Pale tan-cream sand, medium to coarse grained.
15.0- 20.0	Pale cream sand, medium to coarse grained. Wet at 15.75 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) vas 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 SURVEY DATA

09/26/91

SITE 27 HEADSPACE SURVEY

LOCATION and INTERVAL	FEET BLS	OVA UNFILTERED (ppm)	OVA FILTERED (ppm)	BOREHOLE OVA UNFILTERED (ppm)	BOREHOLE OVA FILTERED (ppm)
P27S001A	0-5	0.0	NOT ANALYZED (NA)	0.0	NA
P27S001B	5–10	0.0	NA	0.0	NA
P27S001C	10–15	0.0	NA	0.0	NA
P27S001D	15-20	0.0	NA	0.0	NA
P27S002A	0-5	0.0	NA	0.0	NA
P27S002B	5–10	0.0	NA	0.0	NA
P27S002C	10–15	0.0	NA	0.0	NA
P27S002D	15–20	0.0	NA	0.1	NA
P27S003A	0-5	0.0	NA	0.0	NA
P27S003B	5–10	0.0	NA	0.0	NA
P27S003C	10–15	0.0	NA	0.0	NA
P27S003D	15–20	0.0	NA	0.0	NA
P27S004A	0-5	0.0	NA	0.2	NA
P27S004B	5–10	0.0	NA	0.4	NA
P27S004C	10–15	0.0	NA	0.0	NA
P27S004D	15-20	0.0	NA	0.0	NA
P27S005A	0-5	0.0	NA	0.0	NA
P27S005B	5-10	0.0	NA	0.0	NA
P27S005C	10-15	0.2	0.0	0.0	NA
P27S005D	15–20	0.2	0.1	0.4	NA
P27S006A	0-5	0.0	NA	0.0	NA
P27S006B	5–10	0.0	NA	0.0	NA
P27S006C	10–15	0.0	NA	0.0	NA
P27S006D	15–20	0.0	NA	0.0	NA
P27S007A	0-5	0.0	NA	0.0	NA
P27S007B	5–10	0.0	NA	0.0	NA
P27S007C	10–15	0.0	NA	0.0	NA
P21S008A	0-5	0.0	NA	0.0	NA
P27S008B	5–10	0.0	NA	0.0	NA
P27S008C	10–15	0.0	NA	0.0	NA
P27S008D	15-20	0.0	NA	0.0	NA
P278S09A	0-5	0.4	0.0	0.2	NA
P27S009B	5–10	0.2	0.0	0.7	NA
P27S009C	10-15	0.2	0.0	0.0	NA
P27S009D	15–20	>1000	0.0	18.0	1.0
P27S010A	0-5	0.0	NA	0.6	NA
P27S010B	5–10	0.0	NA	0.2	NA
P27S010C	10–15	0.0	NA	0.0	NA
P27S010D	15-20	>1000	0.4	600	50
P27S011A	0-5	0.2	0.0	0.2	NA
P27S011B	5–10	0.1	0.0	0.2	NA
P27S011C	10-15	0.0	0.0	0.0	NA
P27S011D	15–20	,1000	0.0	980	30
P27S012A	0-5	0.0	NA	1.5	NA
P27S012B	5-10	0.0	NA	0.0	NA

SITE 27 HEADSPACE SURVEY

LOCATION and INTERVAL	FEET BLS	OVA UNFILTERED (ppm)	OVA FILTERED (ppm)	BOREHOLE OVA UNFILTERED (ppm)	BOREHOLE OVA FILTERED (ppm)
P27S012C	10-15	0.2	0.0	3.0	NA
P27S012D	15-20	200	0.4	3.0	NA
P27S013A	0-5	0.4	0.0	1.0	NA
P27S013B	5-10	0.0	NA	0.6	NA
P27S013C	10-15	0.0	NA	0.0	NA
P27S013D	15-20	0.0	NA	0.0	NA
P27S014A	0-5	0.0	NA	0.2	NA
P27S014B	5-10	0.2	0.2	0.0	NA
P27S014C	10-15	0.0	NA	0.0	NA
P27S015A	0-5	0.0	NA	0.0	NA
P27S015B	5-10	0.0	NA	0.0	NA
P27S015C	10-15	0.0	NA	0.0	NA
P27S015D	15-20	0.0	NA	0.0	NA
P27S016A	0-5	0.0	NA	0.0	NA
P27S016B	5-10	0.0	NA	0.0	NA
P27S016C	10-15	0.0	NA	0.0	NA
P27S017A	0-5	0.0	NA	0.0	NA
P27S017B	5-10	0.0	NA	0.0	NA
P27S017C	10-15	0.0	NA	0.0	NA
P27S018A	0-5	0.0	NA	0.0	NA
P27S018B	5-10	0.0	NA	0.0	NA
P27S018C	10-15	0.0	NA	0.0	NA
P27S018D	15-20	0.0	NA	0.0	NA
P27S019A	0-5	0.0	NA	0.0	NA
P27S019B	5-10	0.0	NA	0.0	NA
P27S019C	10-15	0.0	NA	0.0	NA
P27S020A	0-5	0.0	NA	0.0	NA
P27S020B	5-10	0.0	NA	0.0	NA
P27S020C	10-15	0.0	NA	0.1	0.0

APPENDIX F

SEDIMENT AND SOIL RADIOCHEMICAL RESULTS

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

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

CHAIN-OF-CUSTODY RECORD

Project No.: WB020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Collectors (Signature): [signature]
Field Team Leader: Chuck 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 (water only)	pH (water only)				REMARKS
W010	6/24	1125		X		low (water) (soil)	Site 27, TW010	1	X	X	X				
009A		1025	X				B009	1	X						water poly.
009B		1032	X				B009	1	X						lot #1092021
009C		1043	X				B009	1	X						
009D		1653	X				B009	1	X						soil poly's
004A		1520	X				B004	1	X						lot #1092021 for B002
004B		1524	X				B004	1	X						B003
004C		1533	X				B004	1	X						B004
004D		1545	X				B004	1	X						lot #1136071 for B009
003A		1416	X				B003	1	X						
003B		1423	X				B003	1	X						*water sample preserved
003C		1430	X				B003	1	X						with HNO_3
003D		1440	X				B003	1	X						
002A		1138	X				B002	1	X						

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Chuck Twitty	6/24/91 1100				
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. Hennig L.C. 6/25/91

Ship Via: Fed X
BL/Airbill Number: 9659244943
Date: 6/24/91

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

234098

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339 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
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CHAIN-OF-CUSTODY RECORD

Project No.: W60020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Samplers (Signature): [signature]
Field Team Leader: [signature]

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	Radium 228					REMARKS
275 0020	6/24	1145	X			GW	Site 27, PCC2	1	X						
275 002C	↓	1151	X			↓	↓ ↓	1	X						
275 002D	↓	1200	X			↓		1	X						

Relinquished By: (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
[signature]	6/24/91 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) [signature] 6/25/91

Ship Via: Fed X
BL/Airbill Number: 9659244943
Date: 6/24/91

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

234055

Air Bill P-1654744895 (NE)

ecology and environment, inc.

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

CHAIN-OF-CUSTODY RECORD

Project No.: 1H9020 Project Name: NAS Pensacola Project Manager: John Barksdale

Samplers: (Signature) [signature] Field Team Leader: [signature]

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Tedlar Bag						REMARKS
PJTS 005A	6/21	0830	X			IDW	SITE 37, E005	1	X						
PJTS 005B		0825	X				B005	1	X						
PJTS 005C		0836	X				B005	1	X						
PJTS 005D		0845	X				B005	1	X						
PJTS 012A		0925	X				B012	1	X						
PJTS 012B		0930	X				B012	1	X						
PJTS 012C		1000	X				B012	1	X						
PJTS 012D		1010	X				B012	1	X						
PJTS 013A		1053	X				B013	1	X						
PJTS 013B		1058	X				B013	1	X						
PJTS 013C		1105	X				B013	1	X						
PJTS 013D		1112	X				B013	1	X						
PJTS 006A		1347	X				B006	1	X						
PJTS 006B	↓	1352	X				B006	1	X						

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[signature]	6/25/91 1600				
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) [signature]

Ship Via: Federal Express

BL/Airbill Number: 9659244895 Date: 6/25

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

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

CHAIN-OF-CUSTODY RECORD

Project No.: UH9020
Project Name: NAS Pensacola
Project Manager: John Farnsdale
Samplers (Signature): [illegible]
Field Team Leader: Andy Twith

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Volatile Acids						REMARKS
P275 CC6C	6/21	1350	X			low	Site 27, B006	1	X						
P275 CC6D		1350	X				B006	1	X						
P275 CC7A		1422	X				B007	1	X						
P275 CC7B		1430	X				B007	1	X						
P275 CC7C		1440	X				B007	1	X						

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Andy Twith	6/25/91 1600				
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) [illegible]

Ship Via: Fed X
BL/Airbill Number: 9659244895
Date: 6/25/91

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300 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086
International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

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

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
001A	6/25	0704	X			low	Site 27, B001	1	X						
001B		0711	X				B001	1	X						lot #1092021
001C		0718	X				B001	1	X						B001
001D		0726	X				B001	1	X						B008
008A		0757	X				B008	1	X						B017 A, AD
008B		0805	X				B008	1	X						B016
008C		0811	X				B008	1	X						
008D		0819	X				B008	1	X						
017A		1040	X				Site 25, B017	1	X						
017AD		1040	X				B017	1	X						
016A		1020	X				B016	1	X						
016AD		1020	X				B016	1	X						
W016	015	1705		X		(water)	Site 27, W016	15	X	X					
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)	Ship Via
[illegible]	6/26/91 1000					FED-X
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) [illegible] CEP	Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)	BL/Airbill Number: 9659 244 906 Date: 6/26/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
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234058

Controls for Environmental P[illegible]tion, Inc.
P.O. BOX 5351 • Santa Fe, New Mex[illegible]
OUT OF STATE 800/545-2188 • FAX - 505-982-9[illegible]

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

Attn: Amy Twitty

Work ID: Soil (NR)
P O # :

Date Received: 06/26/91
Date Reported: 07/11/91
Work Order: 91-06-572
Category:

RECEIVED
JUL 15 91
PENSACOLA

Approved By:

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87501 • OUT OF STATE 800/545-2188 • FAX - 505-982-98

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

Attn: Amy Twitty

Work ID: soil (NR)
P O I :

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

RECEIVED
JUL 15 91
OLA

Approved By

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502
IN STATE 505/982-9841
OUT OF STATE 800/545-2188 • FAX- 505-982-9289

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

Attn: Any Twitty

Work ID: Soil (NR)
P O W :

Date Received: 08/29/91
Date Reported: 09/25/91
Work Order: 91-08-698
Category :

Approved By:

RECEIVED
OCT 0 1 91
PE...

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 8750
OUT OF STATE 800/545-2188 • FAX - 505-982-92

Ecology and Environment, Inc.
316 South Baylen St. #670
Pensacola, FL 32502

Attn: Amy Twitty

Work ID: Sediment (NO)
P O # :

Date Received: 06/29/91
Date Reported: 07/10/91
Work Order: 91-06-616
Category:

Approved By:

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JUL 15 91

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Page [illegible] CEP, Inc. REPORT Work Order # 91-06-616

Received: 06/28/91 Results by sample

SAMPLE ID P27SD001 SITE 27 SD001 FRACTION 01m TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/26/91 11:25:00 Category SEDIMENT

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.20+/-0.05

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 0750
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OUT OF STATE 800/545-2188 • FAX - 505-982-9[illegible]

Received: 06/25/91

CEP, Inc. REPORT
Results by Sample

Work Order # 91-06-526

SAMPLE ID P275003A SITE 27, BW3 FRACTION 09A TEST CODE RA2265 NAME Radium-226.
Date & Time Collected 06/24/91 14:16:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

SAMPLE ID P275003B SITE 27, B003 FRACTION 10A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 14:23:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
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 CEP, Inc. REPORT Wdk Order # 91-06-526

Received: 06/25/91

Results by Sample

AMPLE ID P275003C SITE 27, B003 FRACTION 11A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 14:30:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radi rm-226	0.5	<0.2

All results reported in

UNITS pCi/gram

AMPLE ID P275003D SITE 27, 8003 FRACTION 12A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 14:40:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

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 CEP, Inc. REPORT Work Order # 91-06-526

ceived: 06/25/91 Results by Sample

MPLE ID P275002A SITE 27, B002 FRACTION 13A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 11:38:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

AMPLE ID P275002B SITE 27, E002 FRACTION 14A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 11:45:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0 S	<0.a

All results reported in

UNITS pCi/gram

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 CEP, Inc. REPORT Work Order # 91-06-526

Received: 06/25/91

Results by Sample

SAMPLE ID P27S002C SITE 27, B002 FRACTION 15A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 11:51:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

SAMPLE ID P27S002D SITE 27, B002 FRACTION 16A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 12:00:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.4+/-0.2

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 P027S001C SITE 27 B001 FRACTION 03A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 07:18:00 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 P027S001D SITE 27 B001 FRACTION 04A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 07:26:00 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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Received: 06/28/91

CEP, Inc. REPORT
Results by Sample

Work Order # 91-06-614

SAMPLE ID P0275001A SITE 27 B001 FRACTION 01A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 07:04:00 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 P0275001B ~~SITE~~ 27 B001 FRACTION 02A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 07:11:00 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 # 91-06-526

Received: 06/25/91

Results by Sample

SAMPLE ID P27S004C SITE 27, B004 FRACTION 07A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/24/91 15:33:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in.

UNITS pCi/gram

SAMPLE ID P27S004D SITE 271 B004 FRACTION 08A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/24/91 15:45:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
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OUT OF STATE 800/545-2188 • FAX - 505-982-92

 CEP, Inc. REPORT Wdk Order # 91-06-526
Received: 06/25/91
Results by Sample

SAMPLE ID P27S004A SITE 27, B004 FRACTION Q5A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 15:20:00 Cateqory SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.a+/-0.1

All results reported in:

UNITS pCi/gram

SAMPLE ID P27S004B SITE 27, B004 FRACTION Q6A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 15:24:00 Catepory SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

Controls for Environmental Protection, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87150 OUT OF STATE 800/545-2188 • FAX - 505-982-92

 CEP, Inc. REPORT Work Order # 91-06-572

Received: 06/26/91

Results by Sample

SAMPLE ID P275005C SITE 27 B005 FRACTION 03A TEST CODE HA2265 NAME Radium-226

Date & Time Collected 06/21/91 08:36:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.24+/-0.13

All results reported in

UNITS pCi/gram

SAMPLE ID P275005D SITE 27 B005 FRACTION 04A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/21/91 08:45:00 Category SOIL

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

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
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Received: 06/26/91

CEP, Inc. REPORT
Results by Sample

Work Order # 91-06-572

SAMPLE ID P275005A SITE 27 B005 FRACTION 01A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 08:20:00 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 P275005B SITE 27 B005 FRACTION 02A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 08:25:00 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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Received: 06/26/91

Hesults by Sample

SAMPLE ID P275006C SITE 27 B006 FRACTION 15A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 ~~13:58:~~00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0 5	<0.20

All results reported in

UN1TS pCi/gram

SAMPLE ID P275006D SITE 27 B006 FRACTION 16A TEST CODE RA2265 NAME Radium-226
Date & Time-Collected 06/21/91 14:11:00 Cateyory 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 # 91-06-572

Received: 06/26/91

Results by Sample

SAMPLE ID P27S006A SITE 27 B006 FRACTION 13A TEST CODE HA2265 NAME Radium-226

Date & Time Collected 06/21/91 13:47:00 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 P27S006B SITE 27 B006 FRACTION 14A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/21/91 13:52:00 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 Wok Order # 91-06-572

Received: 06/26/91 Results by Sample

SAMPLE ID P27S007C SITE 27 B007 FRACTION 19A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/21/9114: 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 # 91-06-572
Received: 06/26/91 Results by Sample

SAMPLE ID P27S007A SITE 27 B007 FRACTION 17A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 14:22:00 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 P27S007B SITE 27 B007 FRACTION 18A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 14:30:00 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 P027S008C SITE 27 B008 FRACTION 07A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06125191 08:11:00 Category SOIL

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

A11 results reported in:

UNITS pCi/gram

SAMPLE ID P027S008D SITE 27 B008 FRACTION 08A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 08:19:00 Category SOIL

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

All results reported in

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
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 CEP, Inc. REPORT Wok Order # 91-06-614
Received: 06/28/91 Results by Sample

SAMPLE ID P027S008A SITE 27 B008 FRACTION 05A TEST CODE HA2265 NAME Radium-226
Date & Time Collected 06/25/91 07:57:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.21+/-0.01

All results reported in:

UNITS pCi/gram

SAMPLE ID P027S008B SITE 27 B008 FRACTION 06A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/25/91 08:05:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0 5	<0.20

A11 results reported in:

UNITS pCi/gram

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 CEP, Inc. REPORT Work Order # 91-06-526

Received: 06/25/91 Results by Sample

SAMPLE ID P27S009C SITE 27, B009 FRACTION 03A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 10:43:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in

UNITS pCi/gram

SAMPLE ID P27S009D SITE 27, B009 FRACTION 04A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 10:53:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.3

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
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 CEP, Inc. REPORT Wdk Order # 91-06-526
Received: 06/25/91 Results by Sample

SAMPLE ID P275009A SITE 27, B009 FKACTION 01A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 10:25:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

SAMPLE ID P275009B SITE 27, B009 FRACTION 02A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/24/91 10:32:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in

UNITS pCi/gram

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 CEP, Inc. REPORT Work Order # 91-06-526
:eived: 06/25/91

Results by Sample

1PLE ID P27S010B SITE 27, B010 FRACTION 25A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 10:10:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

MPLE ID P27S010C SITE 27, B010 FRACTION 26A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 10:18:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.4+/-0.2

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502
IN STATE 505/982-9126
OUT OF STATE 800/545-2188 • FAX - 505-982-9269

CEP, Inc. REPORT

Wdk Order # 91-06-526

Received: 06/25/91

Results by Sample

SAMPLE ID P27S010D SITE 27, B010 FRACTION 27A TEST CORE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 10:26:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

SAMPLE ID P27S014AD SITE 27, B014 FRACTION 28A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 08:11:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 875
OUT OF STATE 800/545-2188 • FAX - 505-982-9

Faye 15 CEP, Inc. REPORT Wdk Order # 91-06-526
ceived: 06/25/91

Results by Sample

MPLE ID P27S011D SITE 27, B011 FRACTION 23A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 09:23:00 Catepory SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.a

All results reported in:

UNITS pCi/gram

AMPLE ID P27S010A SITE 27, B010 FRACTION 24A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 10:05:00 Cateyory SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	SO.2

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O.BOX 5351 • Santa Fe, New Mexico 87
OUT OF STATE 800/545-2188 • FAX - 505-982-

 CEP, Inc. REPORT Wdk Order # 91-06-526

Received: 06/25/91

Results by Sample

SAMPLE ID P27S011B SITE 27, B011 FRACTION 21A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/22/91 08:55:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.6+/-0.1

All results reported in:

VNITS pCi/gram

SAMPLE ID P27S011C SITE 27, B011 FRACTION 22A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/22/91 09:09:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.4+/-0.2

All results reported in:

UNITS pCi/gram

ecology and environment

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 8750
IN STATE 505/988-9
OUT OF STATE 800/545-2188 • FAX - 505-982-9

 CEP, Inc. REPORT Work Order # 91-06-526

ceived: 06/25/91

Results by Sample

MPLE ID P27S011BD SITE 27, B011 FRACTION 29A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/22/91 08:55:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

AMPLE ID P27S015A SITE 27, B015 FRACTION 30A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/22/91 14:23:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	1.8+/-0.3

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-9289

 CEP, Inc. REPORT Work Order # 91-06-572

Received: 06/26/91 Results by Sample

SAMPLE ID P27S012A SITE 27 B012 FRACTION 05A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 09:25:00 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 P27S012B SITE 27 B012 FRACTION 06A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 09:30:00 Category SOIL

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

All results reported in

UNITS pCi/gram

recycled paper
ecology and environment

Controls for Environmental Protection, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87
OUT OF STATE 800/545-2188 • FAX - 505-982-

 CEP, Inc. REPORT Work Order # 91-06-572

Received: 06/26/91

Results by Sample

SAMPLE ID P27S012C SITE 27 B012 FRACTION 07A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 10:00:00 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 P27S012D SITE 27 B012 FRACTION 08A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/21/91 10:10:00 Category SOIL

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

All results reported in

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-9289

 CEP, Inc. REPORT Work Order # 91-06-573

Received: 06/26/91

Results by Sample

SAMPLE ID P275013A SITE 27 B013 — FRACTION 09A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/21/91 10:53:00 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 P275013B SITE 27 B013 FRACTION 10A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/21/91 10:58:00 Category SOIL

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

All results reported in

UNITS pCi/gram

recycled paper

ecology and environment

Controls for Environmental P[illegible]tion, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87[illegible]
OUT OF STATE 800/545-2188 • FAX - 505-982-[illegible]

 CEP, Inc. REPORT Wdk Order # 91-06-572

:ceived: 06/26/91 Results by Sample

AMPLE ID P27S013C SITE 27 8013 FRACTION 11A TEST CODE RA2265 NAME Radium-226
Rate & Time Collected 06/21/91 11:05:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.3	0.20

All results reported in

UNITS pCi/gram

AMPLE ID P27S013D SITE 27 B013 FRACTION 12A TEST CODE HA2265 NAME Radium-226
Date & Time Collected 06/21/91 11:12:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.3	<0.20

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-9289

 CEP, Inc. REPORT Work Order # 91-06-526

Received: 06/25/91

Results by Sample

SAMPLE ID P275014A SITE 271 B014 FRACTION 17A TEST CODE RA2265 NAME Radium-226

Rate & Time Collected 06/22/91 08:11:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in

UNITS pCi/gram

SAMPLE ID P275014B SITE 271 B014 FRACTION 18A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/22/91 08:17:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

Recycled paper
cool gy and environment

Controls for Environmental Pr[illegible]ion, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 875[illegible]
IN STATE 505/[illegible]
OUT OF STATE 800/545-2168 • FAX - 505-982-9[illegible]

 CEP, Inc. REPORT Wdk Order # 91-06-526

:ceived: 06/25/91 Results by Sample

AMPLE ID P275014C SITE 27, 8014 FRACTION 19A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 08:24:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.3	<0.2

All results reported in:

UNITS pCi/gram

AMPLE ID P275011A SITE 27, 3011 FRACTION 20A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 08:50:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	<0.2

All results reported in:

UNITS pCi/gram

Controls for Environmental Pc ıtion, Inc.
P.O.BOX 5351 • Santa Fe, New Mexico 87/5
IN STATE 505/982-9
OUT OF STATE 800/545-2188 • FAX- 505-982-9

CEP, Inc. REPORT

Wok Order # 91-06-526

Received: 06/25/91

Results by Sample

SAMPLE ID P27S015B SITE 27, B015 FRACTION 31A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 14:30:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.6+/-0.3

All results reported in:

UNITS pCi/gram

SAMPLE ID P27S015C SITE 27, B015 FRACTION 32A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 14:44:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.5+/-0.2

A11 results reported in

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 875 OUT OF STATE 800/545-2188 • FAX - 505-982-9

 CEP, Inc. REPORT Wdk Order # 91-06-526

:ceived: 06125191 Results by Sample

AMPLE ID P27S015D SITE 27, B015 FRACTION 33A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/22/91 14:51:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.4+/-0.3

All results reported in

UNITS pC&(aram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-[illegible]39

 CEP, Inc. REPORT Work Order # 91-06-526

Received: 06/25/91

Results by Sample

SAMPLE ID P27S016A SITE 27, B016 FRACTION 34A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 15:20:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	15.8+/-0.3

All results reported in:

UNITS pCi/aram

SAMPLE ID P27S016B SITE 27, B016 FRACTION 35A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 06/22/91 15:27:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	1.8+/-0.3

All results reported in:

UNITS pCi/gram

recycled paper
ecology and environment

Controls for Environmental Pollution, Inc.
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OUT OF STATE 800/545-2188 • FAX - 505-982-

 CEP, Inc. REPORT Work Order # 91-06-526

Received: 06/25/91

Results by Sample

SAMPLE ID P275016C SITE 27, B016 FRACTION 36A TEST CODE RA2265 NAME Radium-226

Date & Time Collected 06/22/91 15:37:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	1.4+/-0.3

All results reported in:

UNITS pCi/gram

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P.O.SOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX- 505-982-9289

Received: 08/29/91

Results by Sample

SAMPLE ID P2750 17A SITE 27, B017 FRACTION 11A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08127193 14:19:00 Category SOIL

Type of Analysis	Detection Limit; pCi/gram	RESULT
Radium-226.	0.5	0.26+/-0.11

All results reported in:

UNITS pCi/gram

SAMPLE ID P2750 178 SITE 27, B017 FRACTION 12A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/27/91 15:14:00 Category SOIL

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

All results reported in:

UNITS pCi/gram

recycled paper
ecology and environment

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P.O. BOX 5351 • Santa Fe, New Mexico 87[illegible]2 OUT OF STATE 800/545-2188 • FAX - 505-98[illegible]

Received: 08/29/91

Results by Sample

SAMPLE ID P2750 17C SITE 27, B017 FRACTION 13A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/27/91 15:36:00 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 P2750 17CD SITE 27, B017 FRACTION 14A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/27/91 15:36:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.22+/-0.14

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
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N. STATE 505/

Received: 08/29/91

Results by Sample

SAMPLE ID P2750 18A SITE 27, B018 FRACTION 01A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/26/9115: 29:00 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 P2750 18B SITE 27, B018 FRACTION 024 TEST CURE RA2265 NAME Radium-226
Rate & Time Collected 08/26/91 15:42:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.24+/-0.19

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87[illegible] IN STATE 505/982[illegible]11
OUT OF STATE 800/545-2188 • FAX - 505-982-[illegible]9

eceived: 08/29/91

Results by Sample

AMPLE ID P2750 18C SITE 27, B018 FRACTION 03A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/26/91 15:55:00 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 P2750 18D SITE 27, B018 FRACTION 04A TEST CORE RA2265 NAME Radium-226
Date & Time Collected 08/26/91 16:01:00 Category SOIL

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

All results reported in:

WITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-[illegible]289

Received: 08/29/91

Results by Sample

SAMPLE ID P2750 19A SITE 27, B019 FRACTION 05A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/26/91 16:53:00 Catepory SOIL

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

All results reported in:

UNITS pCi/gram

SAMPLE ID P2750 19B SITE 27, B019 FRACTION 06A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/26/91 17:03:00 Catepory SOIL

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

All results reported in:

UNITS pCi/gram

recycled paper
ecology and environment

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502
IN STATE 505/95[illegible] OUT OF STATE 800/545-2188 • FAX - 505-982-9289

Received: 08/29/91 Results by Sample

SAMPLE ID P2750 19C SITE 27, B019 FRACTION 07A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/26/91 17:18:00 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 P2750 20A SITE 27, B020 FRACTION 08A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/27/91 11:13:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.3	<0.20

All results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87[illegible]2 OUT OF STATE 800/545-2188 • FAX - 505-98[illegible]89

Received: 08/29/91

Results by Sample

SAMPLE ID P2750 20B SITE 27, B020 FRACTION 09A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08/27/91 11:31:00 Category SOIL

Type of Analysis	Detection Limit pCi/gram	RESULT
Radium-226	0.5	0.20+/-0.10

All results reported in

UNITS pCi/gram

SAMPLE ID P2750 20C SITE 27, B020 FRACTION 10A TEST CODE RA2265 NAME Radium-226
Date & Time Collected 08127191 11:46:00 Category SOIL

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

411 results reported in:

UNITS pCi/gram

Controls for Environmental Pollution, Inc.
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 CEP, Inc. KEPORT Work Order # 91-06-525

Received: 06/25/91 Results by Sample

SAMPLE ID P27GW010 Site 27 TW010 FRACTION 07A TEST CODE RA2261 NAME Radium-226

Date & Time Collected 06/24/91 11:25:00 Category WATER

Type of Analysis	Detection Limit pCi/L	RESULT
Radium-226	0.6	<0.6

All results reported in

UNITS pCi/liter

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-9289

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

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:

recycled paper

APPENDIX G

SEDIMENT SAMPLING
ANALYTICAL SCREENING RESULTS

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn

DATE: July 12, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.523

CC: Lab File

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

All samples on vhich 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, vith such charges accruing until destruction of the samples is authorized by the client.

GH/emc
Enclosure

7101.523 (14596 (

~~114596~~ R.B.

ecology and environment, inc.

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

CHAIN-OF-CUSTODY RECORD

Project No: 1H8020
Project Name: NASP Group 6
Project Manager: John Barksdale
Samplers (Signatures): [signature]
Field Team Leader: D. Foss / [signature]

STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	SCREENING PAHs, PAHOIL	SCREENING METALS, TRPHC	SCREENING VOCs	SCREENING PESTICIDES + PCBs			REMARKS
SD001	6/26	1125	X			LOW	~~Site 32~~ SD001 [K-6]	1	X	X	X	X			low corn content
007C	6/26	1305	X				Site 31 B007		X	X	X	X			
007D	6/26	1510	X				B007		X	X	X	X			
009A	6/26	1540	X				B009		X	X	X	X			
009B	6/26	1543	X				B009		X	X	X	X			
009C	6/26	1550	X				B009		X	X	X	X			
009D	6/26	1555	X				B009		X	X	X	X			

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
[signature]	6/26/91 (7a)	Fed Ex				Fed Ex
Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	
Fed Ex	Date/Time 6/27 6:27-91	Received For Laboratory By (Signature) [signature]	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	BL/Airbill Number 0776546186 — Date 6/26/91

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

214055

JOB NUMBER : 9101.523

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14596.01	P27-SD001	SPNMET1	06/26/91		07/01/91
		SPNP&P1	06/26/91		07/02/91
		SPNPAH1	06/26/91		07/09/91
		SPNPHL1	06/26/91		07/06/91
		SPNPRG1	06/26/91		07/02/91
		SPNTPH1	06/26/91		06/28/91

TEST CODE :SPH 1 JOB NUMBER :9101.741

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-16432 P27-S013C (14270)	6.6		NA
EE-91-16433 P27-S013D (14271)	7.8		NA
EE-91-16434 P27-S014A (14388)	8.0		NA
EE-91-16435 P27-S014AD(14389)	8.0		NA
EE-91-16436 P27-S014B (14390)	7.1		NA
EE-91-16437 P27-S014C (14391)	7.4		NA
EE-91-16438 P27-S015A (14392)	7.6		NA
EE-91-16439 P27-S015B (14393)	7.6		NA
EE-91-16440 P27-S015C (14394)	7.6		NA
EE-91-16441 P27-S015D (14395)	7.5		NA
EE-91-16442 P27-S016B (14396)	6.7		NA
EE-91-16443 P27-S016C (14597)	6.6		NA
EE-91-16444 P27-SD001 (14596)	7.9		NA

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

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.

METALS SECTION JOB NUMBER :9101.523

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAHPLE ID LAB : EE-91-14596 MATRIX: SOLID
SAHPLE ID CLIENT: P27-SD001
SAHPLE LOCATION :

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	4.2		1.0	MG/KG
Zinc	32		2.0	MG/KG
Lead	23		4.0	MG/KG
Cadmium	1.3		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	6.3		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

HETALS SECTION JOB NUMBER :9101.523

Ecology and Environment, Inc.
Analytical Services Center

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

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
3 = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

TEST CODE :SPNTPH1 JOB NUMBER :9101.523

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-14596			
P27-SD001	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

TEST CODE :SPNPRG1 JOB NUMBER :9101.523

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-91-14596 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SD001
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 - Dichloroethanc	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.523

(ug/L)

Parameter	E & B Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	20	20	100
Toluene		ND	20	19	95
Ethyl Benzene		ND	20	19	95
1,2-Dichlorobenzene		ND	20	17	85
1,3-Dichlorobnezene		ND	20	17	85
1,4-Dichlorobenzene		ND	20	17	85
1,1-Dichloroethene		ND	20	14	70
Uethylene Chloride / Trans-1,2-Dichloroethene		ND	40	37	93
1,1-Dichloroethane		ND	20	23	115
1,1,1-Trichloroethane		ND	20	21	105
1,2-Dichloroethane		ND	20	25	125
Trichloroethene		ND	20	23	115
Tetrachloroethene		ND	20	22	110

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.523

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14596	83
	Method Blank #1	102
	thod	
1,4-Dichlorobutane	14596	120
	Method Blank #1	100

TEST CODE :SPNPRG1 JOB NUMBER :9101.523

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
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
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 : SPNPAH1 JOB NUMBER : 9101.523

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAE - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14596 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SD001
SAMPLE LOCATION :

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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.523

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene	14517 MS	ND	50	49	98
	14591	ND	50	48	96

ND = NOT DETECTED

TEST CODE :SPNPAH1 JOB NUMBER :9101.523

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : HETHOD BLANK MATRIX : SOLID

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 LIHIT

TEST CODE : SPNPHL1 JOB NUMBER : 9101.523

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14596 MATRIX : SOLID
SAHPLE ID CLIENT: P27-SD001
SAHPLE 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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.523

(ug)

Parameter	E & E Laboratory No. 91- Blank	Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichloro-Phenol			ND	100	104	104

ND = NOT DETECTED

TEST CODE :SPNPHL1 JOB NUMBER :9101.523

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
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 STATED DETECTION LIHIT

TEST CODE : SPNP&P1 JOB NUMBER : 9101.523

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-91-14596 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SD001
SAMPLE LOCATION :

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

TEST CODB :SPNP&P1 JOB NUMBER :9101.523

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK MATRIX : SOLID

PARAHETER	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-DDE	ND		1000
Total PCBs	ND		5000

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

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn

DATE: July 2, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.474

CC: Lab File

Attached is the laboratory report of the analysis conducted on nineteen 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.

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/tms
Bnclosure

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn

DATE: July 10, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.495

CC: Lab File

Attached is the laboratory report of the analysis conducted on thirty-six samples received at the Analytical Services Center on June 25, 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.

Sample #14398 was not preserved to the correct pH (<2). Additional acid (82804) was added to bring the pH down to the correct level.

All samples on which this report is based will be retained by B 6 E for a period of 30 days from the date of this report unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn

DATE: July 12, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.507

CC: Lab File

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

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

GH/kr
Enclosure

HEHORANDUM

TO: John Barksdale

FROM: Gary Hahn G Hahn/jp

DATE: September 19, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9102.245

CC: Lab File

Attached is the laboratory report of the analysis conducted on forteen samples received at the Analytical Services Center on September 12, 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 6 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: September 11, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9102.102

CC: Lab File

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

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

GH/tms
Enclosure

MEMORANDUM

TO: John Barksdale

FRON: 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

Job # 9101-

Sample Range 14363 → 14398

(PH for water)

ecology and environment, inc.

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

CHAIN-OF-CUSTODY RECORD

Project No.: H0020 | Project Name: NAS Pensacola | Project Manager: John Barksdale

Project Manager(s): [illegible] | Field Team Leader: Acly Jeffry

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 TPRH	Screening PAHs	Screening Phenols	Screening Pesticides	Screening Metals	Remarks
010	6/24	1125		X		IDW (Water)	Site 27, TW010	5	X	X	X	X	X	X	Water sample:
09A		1025	X			(SOIL)	B009	3	X	X	X	X	X	X	Metals preserved with HNO_3
09B		1032	X				B009	3	X	X	X	X	X	X	TPRH preserved with H_2SO_4
09C		1043	X				B009	3	X	X	X	X	X	X	
09D		1053	X				B009	3	X	X	X	X	X	X	lot # for Poly is #1092021
04A		1520	X				B004	3	X	X	X	X	X	X	
04B		1524	X				B004	3	X	X	X	X	X	X	
04C		1533	X				B004	3	X	X	X	X	X	X	Soil samples: X0331013
04D		1545	X				B004	3	X	X	X	X	X	X	8oz jars lot # ~~123033~~
03A		1416	X				B003	3	X	X	X	X	X	X	B009, B002, B003 A, B, C
03B		1423	X				B003	3	X	X	X	X	X	X	lot # 1093011 B003D, B004
03C		1430	X				B003	3	X	X	X	X	X	X	VOAs lot # B009, B003, B002, B004
03D		1440	X				B003	3	X	X	X	X	X	X	1L Polys lot# 1126071 B009
02A		1138	X				B002	3	X	X	X	X	X	X	lot # 1092021 B002, B003, B004

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[signature]	6/24/91 1800	Fed Ex			
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Relinquished By: (Signature)	Date/Time: 6/25/91	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)
Fed Ex		[signature]			

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234068

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18 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060

CHAIN-OF-CUSTODY RECORD

No.: 3020

Project Name: NAS Pensacola

Project Manager: John Barksdale

Field Team Leader: Cindy Tuttle

Delivery (Signature): [illegible]

ON ER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening TPH	Screening PAHs	Screening Phenols	Screening Pesticides	Screening TRPH	REMARKS
C	6/21	1350	X			OW	Site 27, B006	3	X	X	X	X	X	X	
D		1411	X				B006	3	X	X	X	X	X	X	
7A		1422	X				B007	3	X	X	X	X	X	X	
7B		1430	X				B007	3	X	X	X	X	X	X	
7C		1440	X				B007	3	X	X	X	X	X	X	
~~7D~~			~~X~~				~~B007~~	~~3~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	

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[illegible]	6/21/91 1600				
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)
[illegible]	6-22-91/1000	[illegible]			

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BL/Airbill Number: 0776546002

Date: 6/21/91

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CONCENTRATION RANGE on back of form.

234066

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

CHAIN-OF-CUSTODY RECORD

Project No.: H8020
Project Name: NAS Pensacola
Employee (Signature): [signature]
Project Manager: John Barksdale
Field Team Leader: [signature]

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening metals	Screening VOCs	Screening TPH	Screening PAHs	Screening Phenols	Screening pesticides	REMARKS
14A	6/22	0811	X			low	Site 27, B014	3	X	X	X	X	X	X	lot # 1091051 8oz jars
14B		0817	X				B014		X	X	X	X	X	X	B014
14C		0824	X				B014		X	X	X	X	X	X	B011
04A		0850	X				B011		X	X	X	X	X	X	B010A, B, C
11B		0855	X				B011		X	X	X	X	X	X	lot # 1123033 VOAS
11C		0909	X				B011		X	X	X	X	X	X	B014 B015
11D		0923	X				B011		X	X	X	X	X	X	B011 B014
10A		1005	X				B010		X	X	X	X	X	X	B010
10B		1010	X				B010		X	X	X	X	X	X	lot # X0331013 8 oz jars
10C		1018	X				B010		X	X	X	X	X	X	B010 D B015
10D	6/22	1026	X				B010		X	X	X	X	X	X	~~B011~~ B016
14AD		0811	X				~~B010~~ B014		X	X	X	X	X	X	~~B014~~
11BD		0855	X				B011		X	X	X	X	X	X	
19A		1423	X				B015		X	X	X	X	X	X	

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[signature]	6/24/91 0900	[signature]			
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Relinquished By: (Signature)	Date/Time: 0830 6-25-91	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)

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Date: 6/24/91

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CHAIN-OF-CUSTODY RECORD

Project No.: 1H020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Field Team Leader: Anil 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 TOC	screening Phenols	screening Pesticides	screening Metals	REMARKS
002B	6/24	1145	X			LOW	Stk 27, B002	3	X	X	X	X	X	X	
002C	↓	1151	X			↓	B002	3	X	X	X	X	X	X	
002D	↓	1200	X			↓	B002	3	X	X	X	X	X	X	

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Relinquished By: (Signature) Fed Ex — Date/Time: 6-25-91 0900 — Received For Laboratory By: (Signature) [signature] — Relinquished By: (Signature) — Date/Time: — Received For Laboratory By: (Signature) — BL/Airbill Number: 0776546105 — Date: 6/24/91

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234098

Job# 9101.507
SAMPLE RANGE 14499 — 14507

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CHAIN-OF-CUSTODY RECORD

Page 1 of ___

Project No.: JH8020
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 TRPH	SCREENING Phenols	SCREENING ~~Oil~~ VOCS	SCREENING PAHs	SCREENING Pesticides + total Pesticides	REMARKS
001A	6/25	0704	X			✓ 14499	SITE 27, B001	3	X	X	X	X	X	X	VOCS
001B	6/25	0711	X			✓	B001	3	X	X	X	X	X	X	LOT #1123033
001C	6/25	0718	X			✓	B001	3	X	X	X	X	X	X	(B016 B017
001D	6/25	0726	X			✓	B001	3	X	X	X	X	X	X	Site 25)
008A	6/25	0797	X			✓	B008	3	X	X	X	X	X	X	
008B	6/25	0805	X			✓	B008	3	X	X	X	X	X	X	
008C	6/25	0811	X			✓	B008	3	X	X	X	X	X	X	802 jars
008D	6/25	0819	X			✓ 14506	B008	3	X	X	X	X	X	X	#1093011 B1ABCD
017A	6/25	1040	X				SITE 25, B017	3	X	X	X	X	X	X	B8 A,B,C
017D	6/25	1040	X				B017	3	X	X	X	X	X	X	#1011051 B16A 16AD
016A	6/25	1020	X				B016	3	X	X	X	X	X	X	B8D
016D	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:
[signature]	6/26/91 1700	FedEx				FEDERAL EXPRESS
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
Relinquished By: (Signature) FedEx	Date/Time: 0930 6-26-91	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	BL/Airbill Number: 0776546120 Date: 6/23/91

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

234059

Job # 9102.102
Storage Range - 20561 - 20576

* in accordance with EQAPP Group G.
See Jack Miller

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

Page 1 of 1

CHAIN OF CUSTODY RECORD

Project No.: 1180 20
Project Name: NAS Pensacola
Project Manager: John Barksdale
Samplers: (Signature) [signature]
Field Team Leader: [signature]

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening PAHs	Screening Phenols	Screening Metals	Screening TRPH	Screening Pest. & PCBs	Screening VOCs	TPH	REMARKS
018A	8/26	1529	X			low ✓	Site 27, B018	3	X	X	X	X	X	X	X	
018B		1542	X			✓	B018	3	X	X	X	X	X	X	X	1 of #5
018C		1565	X			✓	B018	3	X	X	X	X	X	X	X	VOCs 1123033
018D		1601	X			✓	B018	3	X	X	X	X	X	X	X	BOD 1140041
019A		1653	X			✓	B019	3	X	X	X	X	X	X	X	
019B		1703	X			✓	B019	3	X	X	X	X	X	X	X	
019C		1718	X			✓	B019	3	X	X	X	X	X	X	X	
020A	8/27	1113	X			✓	B020	3	X	X	X	X	X	X	X	
020B		1131	X			✓	B020	3	X	X	X	X	X	X	X	
020C		1146	X			✓	B020	3	X	X	X	X	X	X	X	
017A		1419	X			✓	B017	3	X	X	X	X	X	X	X	
017B		1514	X			✓	B017	3	X	X	X	X	X	X	X	
017C		1536	X			✓	B017	3	X	X	X	X	X	X	X	
017D		1536	X				B017	3	X	X	X	X	X	X	X	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Ship Via
[signature]	8/27 1900	[signature]				Fed X
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	
						BL/Airbill Number: 7769 7262
Relinquished By: (Signature) [signature]	Date/Time: 0920 8-28-91	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)	Date: 8/27/91

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

234055

* temp VOA in separate baggie
VOA temp. at 6°C upon
receipt at lab. 8/28/91 VLS 10:30am

Send Results to
E&E
316 S. Boylan St.
Pensacola 32501

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

CHAIN-OF-CUSTODY RECORD

Project No.: 1118920
Project Name: NAS Pensacola
Project Manager: John Barksdale
Field Team Leader: Cindy Tuttle
Samplers (Signature): [signature]

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 TEPH	REMARKS
005A	6/21	0820	X			LOW	Site 21, B005	3	X	X	X	X	X	X	VOA lot #s
005B		0825	X				B005	3	X	X	X	X	X	X	#B0220033
005C		0836	X				B005	3	X	X	X	X	X	X	B005, B006
005D		0845	X				B005	3	X	X	X	X	X	X	B012, B013
012A		0925	X				B012	3	X	X	X	X	X	X	#1123033 B007
012B		0930	X				B012	3	X	X	X	X	X	X	8oz jar lot #s
012C		1000	X				B012	3	X	X	X	X	X	X	#X0331013
012D		1010	X				B012	3	X	X	X	X	X	X	B005 A & BCD
013A		1053	X				B013	3	X	X	X	X	X	X	~~#~~ B006 A, B
013B		1058	X				B013	3	X	X	X	X	X	X	B012 ABCD
013C		1105	X				B013	3	X	X	X	X	X	X	B013 ABCD
013D		1112	X				B013	3	X	X	X	X	X	X	#1091051 ~~lot~~
006A		1324	X				B006	3	X	X	X	X	X	X	B006 C & D
006B		1352	X				B006	3	X	X	X	X	X	X	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[signature]	6/21/91 1600				
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	[signature]			

Ship Via: Fed X
BL/Airbill Number: 0776546002
Date: 6/21

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

234098

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

CHAIN-OF-CUSTODY RECORD

Project No.: 1620 | Project Name: NAS Pensacola | Project Manager: John Bartsdale
Samplers: (Signatures) | Field Team Leader: Jerry Twitty

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening Metals	Screening VOCs	Screening TPH	Screening PAHs	Screening Phenols	Screening Pesticides: PCBs	REMARKS
15B	6/22	1430	X			low	Site 27, B015	3	X	X	X	X	X	X	
15C	↓	1444	X			↓	B015	↓	X	X	X	X	X	X	
15D		1451	X				B015		X	X	X	X	X	X	
16B		1537	X				B016		X	X	X	X	X	X	
16C	↓	1537	X			↓	B016	↓	X	X	X	X	X	X	

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via
[signature]	6/24/91 0900	Fed Ex				Federal Express
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: 0776546061
Fed Ex	6-25-91 0830	Received For Laboratory By: (Signature) [signature]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 6/24/91

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

234055

Job # 9102.102
Strength Dance - 20561 - 20576

* in accordance with EQAPP Group G.
See Jack Miller

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 1 of 1

Project No: LH60 20
Project Name: NAS Pensacola
Project Manager: John Bartsdale
Samplers (Signature): [signature]
Field Team Leader: [signature]

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Contaminant)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening PAHs	Screening Phenols	Screening Metals	Screening TOPH	Screening Pest. + PCBs	Screening VOCs	REMARKS
P2T50018A	8/26	1529	X			low ✓	Site 27, B018	3	X	X	X	X	X	X	
P2T50018B		1542	X			✓	B018	3	X	X	X	X	X	X	1 of #5
P2T50018C		1565	X			✓	B018	3	X	X	X	X	X	X	VOCs 1123033
P2T50018D		1601	X			✓	B018	3	X	X	X	X	X	X	BOC 1140041
P2T50019A		1653	X			✓	B019	3	X	X	X	X	X	X	
P2T50019B		1703	X			✓	B019	3	X	X	X	X	X	X	
P2T50019C	↓	1718	X			✓	B019	3	X	X	X	X	X	X	
P2T50020A	8/27	1113	X			✓	B020	3	X	X	X	X	X	X	
P2T50020B		1131	X			✓	B020	3	X	X	X	X	X	X	
P2T50020C		1146	X			✓	B020	3	X	X	X	X	X	X	
P2T50017A		1419	X			✓	B017	3	X	X	X	X	X	X	
P2T50017B		1514	X			✓	B017	3	X	X	X	X	X	X	
P2T50017C		1536	X			✓	B017	3	X	X	X	X	X	X	
P2T50017D	↓	1534	X			✓	B017	3	X	X	X	X	X	X	

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
[signature]	8/27 1900	Fed Ex			
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 Ex	0730 8/28/91	[signature]			

Shipper: Fed X
BL/Airbill Number: 0776927262
Date: 8/27/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

*See CONCENTRATION RANGE on back of form

* temp VOC in separate baggie
VOA TEMP at 6°C upon [illegible] 10:30 am

JOB NUMBER : 9101.474

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATU ANALYZED
14253.01	P27-S005A	SPNPRGl	06/21/91		06/25/91
14253.02	P27-S005A	SPNTPHl	06/21/91		06/26/91
14253.03	P27-S005A	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/26/91
		SPNPAH1	06/21/91		06/27/91
		SPNPELl	06/21/91		06/22/91
14254.01	P27-S005B	SPNPRGl	06/21/91		06/25/91
14254.02	P27-S005B	SPNTPHl	06/21/91		06/26/91
14254.03	P27-S005B	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/26/91
		SPNPAHl	06/21/91		06/27/91
		SPNPELl	06/21/91		06/22/91
14255.01	P27-S005C	SPNPRGl	06/21/91		06/25/91
14255.02	P27-S005C	SPNTPH1	06/21/91		06/26/91
14255.03	P27-S005C	SPNMET1	06/21/91		06/25/91
		SPNPbPl	06/21/91		06/26/91
		SPNPAHl	06/21/91		06/27/91
		SPNPELl	06/21/91		06/26/91
14256.01	P27-S005D	SPNPRGl	06/21/91		06/25/91
14256.02	P27-S005D	SPNTPHl	06/21/91		06/26/91
14256.03	P27-S005D	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/26/91
		SPNPAHl	06/21/91		06/27/91
		SPNPHLl	06/21/91		06/26/91
14257.01	P27-S006A	SPNPRGl	06/21/91		06/25/91
14257.02	P27-S006A	SPNTPHl	06/21/91		06/26/91
14257.03	P27-S006A	SPNMET1	06/21/91		06/25/91
		SPNPbPl	06/21/91		06/26/91
		SPNPAHl	06/21/91		06/27/91
		SPNPHLl	06/21/91		06/26/91
14258.01	P27-S006B	SPNPRGl	06/21/91		06/25/91
14258.02	P27-S006B	SPNTPHl	06/21/91		06/26/91
14258.03	P27-S006B	SPNMET1	06/21/91		06/25/91
		SPNPbPl	06/21/91		06/26/91
		SPNPAHl	06/21/91		06/27/91
		SPNPHLl	06/21/91		06/26/91
14259.01	P27-S006C	SPNPRGl	06/21/91		06/25/91
14259.02	P27-S006C	SPNTPHl	06/21/91		06/26/91
14259.03	P27-S006C	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/26/91
		SPNPAHl	06/21/91		06/28/91
		SPNPHLl	06/21/91		06/26/91
14260.01	P27-S006D	SPNPRGl	06/21/91		06/25/91
14260.02	P27-S006D	SPNTPHl	06/21/91		06/26/91
14260.03	P27-S006D	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAHl	06/21/91		06/28/91

JOB NUMBER : 9101.474

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14260.03	P27-S006D	SPNPHL1	06/21/91		06/26/91
14261.01	P27-S007A	SPNPRG1	06/21/91		06/25/91
14261.02	P27-S007A	SPNTPH1	06/21/91		06/26/91
14261.03	P27-S007A	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/27/91
		SPNPHL1	06/21/91		06/26/91
14262.01	P27-S007B	SPNPRG1	06/21/91		06/25/91
14262.02	P27-S007B	SPNTPH1	06/21/91		06/26/91
14262.03	P27-S007B	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPHL1	06/21/91		06/26/91
14263.01	P27-S007C	SPNPRG1	06/21/91		06/25/91
14263.02	P27-S007C	SPNTPE1	06/21/91		06/26/91
14263.03	P27-S007C	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPEL1	06/21/91		06/26/91
14264.01	P27-S012A	SPNPRG1	06/21/91		06/25/91
14264.02	P27-S012A	SPNTPE1	06/21/91		06/26/91
14264.03	P27-S012A	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPEL1	06/21/91		06/26/91
14265.01	P27-S012B	SPNPRG1	06/21/91		06/25/91
14265.02	P27-S012B	SPNTPE1	06/21/91		06/26/91
14265.03	P27-S012B	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPHL1	06/21/91		06/26/91
14266.01	P27-S012C	SPNPRG1	06/21/91		06/25/91
14266.02	P27-S012C	SPNTPE1	06/21/91		06/26/91
14266.03	P27-S012C	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPHL1	06/21/91		06/26/91
14267.01	P27-S012D	SPNPRG1	06/21/91		06/25/91
14267.02	P27-S012D	SPNTPH1	06/21/91		06/26/91
14267.03	P27-S012D	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPEL1	06/21/91		06/26/91
14268.01	P27-S013A	SPNPRG1	06/21/91		06/25/91
14268.02	P27-S013A	SPNTPH1	06/21/91		06/26/91
14268.03	P27-S013A	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91

JOB NUMBER : 9101.474

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14268.03	P27-S013A	SPNPAH1	06/21/91		06/28/91
		SPNPHL1	06/21/91		06/26/91
14269.01	P27-S013B	SPNPRGl	06/21/91		06/26/91
14269.02	P27-S013B	SPNTPH1	06/21/91		06/26/91
14269.03	P27-S013B	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPHLl	06/21/91		06/26/91
14270.01	P27-S013C	SPNPRGl	06/21/91		06/26/91
14270.02	P27-S013C	SPNTPH1	06/21/91		06/26/91
14270.03	P27-S013C	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPHLl	06/21/91		06/26/91
14271.01	P27-S013D	SPNPRGl	06/21/91		06/26/91
14271.02	P27-S013D	SPNTPH1	06/21/91		06/26/91
14271.03	P27-S013D	SPNMET1	06/21/91		06/25/91
		SPNP&P1	06/21/91		06/27/91
		SPNPAH1	06/21/91		06/28/91
		SPNPHLl	06/21/91		06/26/91

JOB NUMBER : 9101.495

Ecology and Environment, Inc.
SAHPLE TRACKING REPORT

LAB SAHPLE ID	CLIENT SAHPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14363.01	P27-S002A	SPNPRGl	06/24/91		06/27/91
14363.02	P27-S002A	SPNTPHl	06/24/91		06/27/91
14363.03	P27-S002A	SPNMET1	06/24/91		06/27/91
		SPNPhPl	06/24/91		06/28/91
		SPNPAEl	06/24/91		06/29/91
		SPNPHLl	06/24/91		07/01/91
14364.01	P27-S002B	SPNPRGl	06/24/91		06/27/91
14364.02	P27-S002B	SPNTPEl	06/24/91		06/27/91
14364.03	P27-S002B	SPNMET1	06/24/91		06/27/91
		SPNPLPl	06/24/91		06/28/91
		SPNPAEl	06/24/91		06/29/91
		SPNPELl	06/24/91		07/01/91
14365.01	P27-S002C	SPNPRGl	06/24/91		06/27/91
14365.02	P27-S002C	SPNTPHl	06/24/91		06/27/91
14365.03	P27-S002C	SPNMET1	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAH1	06/24/91		06/29/91
		SPNPHLl	06/24/91		07/01/91
14366.01	P27-S002D	SPNPRGl	06/24/91		06/27/91
14366.02	P27-S002D	SPNTPEl	06/24/91		06/27/91
14366.03	P27-S002D	SPNMET1	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAEl	06/24/91		06/29/91
		SPNPELl	06/24/91		07/01/91
14367.01	P27-S003A	SPNPRGl	06/24/91		06/27/91
14367.02	P27-S003A	SPNTPHl	06/24/91		06/27/91
14367.03	P27-S003A	SPNnETl	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAEl	06/24/91		06/29/91
		SPNPELl	06/24/91		07/01/91
14368.01	P27-S003B	SPNPRGl	06/24/91		06/27/91
14368.02	P27-S003B	SPNTPEl	06/24/91		06/27/91
14368.03	P27-S003B	SPNMET1	06/24/91		06/27/91
		SPNPLPl	06/24/91		06/28/91
		SPNPAEl	06/24/91		06/29/91
		SPNPELl	06/24/91		07/01/91
14369.01	P27-S003C	SPNPRGl	06/24/91		06/27/91
14369.02	P27-S003C	SPNTPHl	06/24/91		06/27/91
14369.03	P27-S003C	SPNMET1	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAH1	06/24/91		06/29/91
		SPNPELl	06/24/91		07/01/91
14370.01	P27-S003D	SPNPRG1	06/24/91		06/27/91
14370.02	P27-S003D	SPNTPEl	06/24/91		06/27/91
14370.03	P27-S003D	SPNMET1	06/24/91		06/27/91
		SPNPLPl	06/24/91		06/28/91
		SPNPAH1	06/24/91		06/29/91

JOB NUMBER : 9101.495

Ecology and Environment, Inc.
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LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14370.03	P27-S003D	SPNPHL1	06/24/91		07/01/91
14371.01	P27-S004A	SPNPRG1	06/24/91		06/27/91
14371.02	P27-S004A	SPNTPH1	06/24/91		06/27/91
14371.03	P27-S004A	SPNMET1	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAH1	06/24/91		06/29/91
		SPNPHL1	06/24/91		07/01/91
14372.01	P27-S004B	SPNPRG1	06/24/91		06/27/91
14372.02	P27-S004B	SPNTPH1	06/24/91		06/27/91
14372.03	P27-S004B	SPNMET1	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAH1	06/24/91		06/29/91
		SPNPHL1	06/24/91		07/01/91
14373.01	P27-S004C	SPNPRG1	06/24/91		06/27/91
14373.02	P27-S004C	SPNTPH1	06/24/91		06/27/91
14373.03	P27-S004C	SPNMET1	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAE1	06/24/91		06/29/91
		SPNPHL1	06/24/91		07/01/91
14374.01	P27-S004D	SPNPRG1	06/24/91		06/27/91
14374.02	P27-S004D	SPNTPH1	06/24/91		06/27/91
14374.03	P27-S004D	SPNMET1	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAE1	06/24/91		06/30/91
		SPNPHL1	06/24/91		07/01/91
14375.01	P27-S009A	SPNPRG1	06/24/91		06/27/91
14375.02	P27-S009A	SPNTPH1	06/24/91		06/27/91
14375.03	P27-S009A	SPNMET1	06/24/91		06/27/91
		SPNPCP1	06/24/91		06/28/91
		SPNPAH1	06/24/91		06/30/91
		SPNPHL1	06/24/91		07/01/91
14376.01	P27-S009B	SPNPRG1	06/24/91		06/27/91
14376.02	P27-S009B	SPNTPH1	06/24/91		06/27/91
14376.03	P27-S009B	SPNMET1	06/24/91		06/27/91
		SPNP&P1	06/24/91		06/28/91
		SPNPAE1	06/24/91		07/01/91
		SPNPHL1	06/24/91		07/02/91
14377.01	P27-S009C	SPNPRG1	06/24/91		06/27/91
14377.02	P27-S009C	SPNTPH1	06/24/91		06/27/91
14377.03	P27-S009C	SPNMET1	06/24/91		06/27/91
		SPNPCP1	06/24/91		06/28/91
		SPNPAH1	06/24/91		07/01/91
		SPNPHL1	06/24/91		07/02/91
14378.01	P27-S009D	SPNPRG1	06/24/91		06/27/91
14378.02	P27-S009D	SPNTPH1	06/24/91		06/27/91
14378.03	P27-S009D	SPNMET1	06/24/91		06/27/91
		SPNPCP1	06/24/91		06/28/91

JOB NUMBER : 9101.495

Ecology and Environment, Inc.
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LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14378.03	P27-S009D	SPNPAH1	06/24/91		07/01/91
		SPNPHL1	06/24/91		07/02/91
14379.01	P27-S010A	SPNPRG1	06/22/91		06/27/91
14379.02	P27-S010A	SPNTPE1	06/22/91		06/27/91
14379.03	P27-S010A	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/28/91
		SPNPAH1	06/22/91		07/01/91
		SPNPHL1	06/22/91		07/02/91
14380.01	P27-S010B	SPNPRG1	06/22/91		06/27/91
14380.02	P27-S010B	SPNTPH1	06/22/91		06/27/91
14380.03	P27-S010B	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/28/91
		SPNPAH1	06/22/91		07/01/91
		SPNPHL1	06/22/91		07/02/91
14381.01	P27-S010C	SPNPRG1	06/22/91		06/27/91
14381.02	P27-S010C	SPNTPE1	06/22/91		06/27/91
14381.03	P27-S010C	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/28/91
		SPNPAH1	06/22/91		07/01/91
		SPNPHL1	06/22/91		07/02/91
14382.01	P27-S010D	SPNPRG1	06/22/91		06/28/91
14382.02	P27-S010D	SPNTPE1	06/22/91		06/27/91
14382.03	P27-S010D	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/28/91
		SPNPAH1	06/22/91		07/01/91
		SPNPHL1	06/22/91		07/02/91
14383.01	P27-S011A	SPNPRG1	06/22/91		06/27/91
14383.02	P27-S011A	SPNTPH1	06/22/91		06/27/91
14383.03	P27-S011A	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAH1	06/22/91		07/01/91
		SPNPHL1	06/22/91		07/02/91
14384.01	P27-S011B	SPNPRG1	06/22/91		06/27/91
14384.02	P27-S011B	SPNTPH1	06/22/91		06/27/91
14384.03	P27-S011B	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAH1	06/22/91		07/01/91
		SPNPHL1	06/22/91		07/02/91
14385.01	P27-S011BD	SPNPRG1	06/22/91		06/27/91
14385.02	P27-S011BD	SPNTPH1	06/22/91		06/27/91
14385.03	P27-S011BD	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAH1	06/22/91		07/01/91
		SPNPHL1	06/22/91		07/02/91
14386.01	P27-S011C	SPNPRG1	06/22/91		06/27/91
14386.02	P27-S011C	SPNTPH1	06/22/91		06/27/91
14386.03	P27-S011C	SPNMET1	06/22/91		06/27/91

JOB NUMBER : 9101.495

Ecology and Environment, Inc.
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LAB SAMPLE ID	CLIENT SAMPLE ID	TBST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14386.03	P27-S011C	SPNP&P1	06/22/91		06/29/91
		SPNPAEl	06/22/91		07/01/91
		SPNPELl	06/22/91		07/02/91
14387.01	P27-S011D	SPNPRGl	06/22/91		06/28/91
14387.02	P27-S011D	SPNTPEl	06/22/91		06/27/91
14387.03	P27-S011D	SPNnETl	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAEl	06/22/91		07/02/91
		SPNPELl	06/22/91		07/02/91
14388.01	P27-S014A	SPNPRGl	06/22/91		06/27/91
14388.02	P27-S014A	SPNTPEl	06/22/91		06/27/91
14388.03	P27-S014A	SPNnETl	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAEl	06/22/91		07/02/91
		SPNPELl	06/22/91		07/02/91
14389.01	P27-S014AD	SPNPRGl	06/22/91		06/27/91
14389.02	P27-S014AD	SPNTPHl	06/22/91		06/27/91
14389.03	P27-S014AD	SPNMET1	06/22/91		06/27/91
		SPNPCPl	06/22/91		06/29/91
		SPNPAEl	06/22/91		07/02/91
		SPNPELl	06/22/91		07/02/91
14390.01	P27-S014B	SPNPRGl	06/22/91		06/27/91
14390.02	P27-S014B	SPNTPHl	06/22/91		07/01/91
14390.03	P27-S014B	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAEl	06/22/91		07/02/91
		SPNPHL1	06/22/91		07/02/91
14391.01	P27-S014C	SPNPRGl	06/22/91		06/27/91
14391.02	P27-S014C	SPNTPEl	06/22/91		06/27/91
14391.03	P27-S014C	SPNnETl	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAE1	06/22/91		07/02/91
		SPNPELl	06/22/91		07/02/91
14392.01	P27-S015A	SPNPRGl	06/22/91		06/28/91
14392.02	P27-S015A	SPNTPEl	06/22/91		06/27/91
14392.03	P27-S015A	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAEl	06/22/91		07/02/91
		SPNPELl	06/22/91		07/02/91
14393.01	P27-S015B	SPNPRGl	06/22/91		06/28/91
14393.02	P27-S015B	SPNTPEl	06/22/91		06/27/91
14393.03	P27-S015B	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAE1	06/22/91		07/02/91
		SPNPHL1	06/22/91		07/02/91
14394.01	P27-S015C	SPNPRGl	06/22/91		06/28/91
14394.02	P27-S015C	SPNTPHl	06/22/91		06/27/91
14394.03	P27-S015C	SPNnETl	06/22/91		06/27/91

JOB NUMBER : 9102.102

Ecology and Environment, Inc.
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LAB SAXPLE ID	CLIENT SAHPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
20568.03	P27-S019B	SPNPHLl	08/26/91		09/06/91
20569.01	P27-S019C	SPNPRGl	08/26/91		08/30/91
20569.02	P27-S019C	SPNTPHl	08/26/91		08/29/91
20569.03	P27-S019C	SPNMET1	08/26/91		09/06/91
		SPNPSPl	08/26/91		08/31/91
		SPNPAHl	08/26/91		09/05/91
		SPNPHLl	08/26/91		09/06/91
20570.01	P27-S020A	SPNPRGl	08/27/91		08/30/91
20570.02	P27-S020A	SPNTPHl	08/27/91		08/29/91
20570.03	P27-S020A	SPNMETl	08/27/91		09/06/91
		SPNP&P1	08/27/91		08/31/91
		SPNPAHl	08/27/91		09/05/91
		SPNPHLl	08/27/91		09/06/91
20571.01	P27-S020B	SPNPRGl	08/27/91		08/30/91
20571.02	P27-S020B	SPNTPHl	08/27/91		08/29/91
20571.03	P27-S020B	SPNMET1	08/27/91		09/06/91
		SPNP&P1	08/27/91		08/31/91
		SPNPAHl	08/27/91		09/05/91
		SPNPHLl	08/27/91		09/06/91
20572.01	P27-S020C	SPNPRGl	08/27/91		08/30/91
20572.02	P27-S020C	SPNTPHl	08/27/91		08/29/91
20572.03	P27-S020C	SPNMETl	08/27/91		09/06/91
		SPNPSPl	08/27/91		08/31/91
		SPNPAHl	08/27/91		09/05/91
		SPNPHLl	08/27/91		09/06/91
20573.01	P27-S017A	SPNPRG1	08/27/91		08/30/91
20573.02	P27-S017A	SPNTPHl	08/27/91		08/29/91
20573.03	P27-S017A	SPNMETl	08/27/91		09/06/91
		SPNPSPl	08/27/91		08/31/91
		SPNPAHl	08/27/91		09/05/91
		SPNPHLl	08/27/91		09/06/91
20574.01	P27-S017B	SPNPRGl	08/27/91		08/30/91
20574.02	P27-S017B	SPNTPH1	08/27/91		08/29/91
20574.03	P27-S017B	SPNMET1	08/27/91		09/06/91
		SPNP&P1	08/27/91		08/31/91
		SPNPAH1	08/27/91		09/05/91
		SPNPHL1	08/27/91		09/06/91
20575.01	P27-S017C	SPNPRGl	08/27/91		08/30/91
20575.02	P27-S017C	SPNTPH1	08/27/91		08/29/91
20575.03	P27-S017C	SPNMETl	08/27/91		09/06/91
		SPNP&P1	08/27/91		08/31/91
		SPNPAHl	08/27/91		09/05/91
		SPNPHLl	08/27/91		09/06/91
20576.01	P27-S017CD	SPNPRGl	08/27/91		08/31/91
20576.02	P27-S017CD	SPNTPH1	08/27/91		08/29/91
20576.03	P27-S017CD	SPNMET1	08/27/91		09/06/91
		SPNP&P1	08/27/91		08/31/91

JOB NUMBER : 9102.102

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATB SAMPLED	DATE EXTRACTED	DATE ANALYZED
20576.03	P27-S017CD	SPNPAH1	08/27/91		09/05/91
		SPNPHL1	08/27/91		09/06/91

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JOB NUMBER : 9101.495

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14394.03	P27-S015C	SPNP&P1	06/22/91		06/29/91
		SPNPAHl	06/22/91		07/02/91
		SPNPHL1	06/22/91		07/02/91
14395.01	P27-S015D	SPNPRGl	06/22/91		06/28/91
14395.02	P27-S015D	SPNTPH1	06/22/91		06/27/91
14395.03	P27-S015D	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAHl	06/22/91		07/02/91
		SPNPBLl	06/22/91		07/03/91
14396.01	P27-S016B	SPNPRGl	06/22/91		06/28/91
14396.02	P27-S016B	SPNTPH1	06/22/91		06/27/91
14396.03	P27-S016B	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAH1	06/22/91		07/02/91
		SPNPHL1	06/22/91		07/03/91
14397.01	P27-S016C	SPNPRGl	06/22/91		06/28/91
14397.02	P27-S016C	SPNTPH1	06/22/91		06/27/91
14397.03	P27-S016C	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAHl	06/22/91		07/02/91
		SPNPHL1	06/22/91		07/03/91
14398.01	P27-GW010	WPNPRG1	06/24/91		06/28/91
14398.03	P27-GW010	WPNP&P1	06/24/91		07/03/91
		WPNPAH1	06/24/91		06/29/91
		WPNPHL1	06/24/91		06/29/91
14398.04	P27-GW010	WPNTPH1	06/24/91		06/26/91
14398.05	P27-GW010	WPNMET1	06/24/91		06/27/91

JOB NUMBER : 9101.507

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14499.01	P27-S001A	SPNPRGl	06/25/91		06/28/91
14499.02	P27-S001A	SPNTPH1	06/25/91		06/28/91
14499.03	P27-S001A	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14500.01	P27-S001B	SPNPRGl	06/25/91		06/29/91
14500.02	P27-S001B	SPNTPHl	06/25/91		06/28/91
14500.03	P27-S001B	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14501.01	P27-S001C	SPNPRGl	06/25/91		06/29/91
14501.02	P27-S001C	SPNTPEl	06/25/91		06/28/91
14501.03	P27-S001C	SPNMET1	06/25/91		06/28/91
		SPNPbPl	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14502.01	P27-S001D	SPNPRGl	06/25/91		06/29/91
14502.02	P27-S001D	SPNTPEl	06/25/91		06/28/91
14502.03	P27-S001D	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14S03.01	P27-S008A	SPNPRGl	06/25/91		06/29/91
14503.02	P27-S008A	SPNTPH1	06/25/91		06/28/91
14503.03	P27-S008A	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHL1	06/25/91		07/04/91
14504.01	P27-S008B	SPNPRGl	06/25/91		06/29/91
14504.02	P27-S008B	SPNTPH1	06/25/91		06/28/91
14504.03	P27-S008B	SPNMET1	06/25/91		06/28/91
		SPNPbPl	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHL1	06/25/91		07/04/91
14505.01	P27-S008C	SPNPRG1	06/25/91		06/29/91
14S05.02	P27-S008C	SPNTPH1	06/25/91		06/28/91
14505.03	P27-S008C	SPNMET1	06/25/91		06/28/91
		SPNPbPl	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHL1	06/25/91		07/04/91
14506.01	P27-S008D	SPNPRG1	06/25/91		06/29/91
14506.02	P27-S008D	SPNTPH1	06/25/91		06/28/91
14506.03	P27-S008D	SPNMET1	06/25/91		06/28/91
		SPNPbPl	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91

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JOB NUMBER : 9102.245

Ecology and Environment, Inc.
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LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE		DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
22002.01	P27-S018A (20563)	SPH	1	08/26/91		09/16/91
22003.01	P27-S018B (20564)	SPH	1	08/26/91		09/16/91
22004.01	P27-S018C (20565)	SPH	1	08/26/91		09/16/91
22005.01	P27-S018D (20566)	SPH	1	08/26/91		09/16/91
22006.01	P27-S019A (20567)	SPH	1	08/26/91		09/16/91
22007.01	P27-S019B (20568)	SPH	1	08/26/91		09/16/91
22008.01	P27-S019C (20569)	SPH	1	08/26/91		09/16/91
22009.01	P27-S020A (20570)	SPH	1	08/27/91		09/16/91
22010.01	P27-S020B (20571)	SPH	1	08/27/91		09/16/91
22011.01	P27-S020C (20572)	SPH	1	08/27/91		09/16/91
22012.01	P27-S017A (20573)	SPH	1	08/27/91		09/16/91
22013.01	P27-S017B (20574)	SPH	1	08/27/91		09/16/91
22014.01	P27-S017C (20575)	SPH	1	08/27/91		09/16/91
22015.01	P27-S017CD (20576)	SPH	1	08/27/91		09/16/91

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14499 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S001A

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

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

270230

JOB NUMBER :9101.507

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14500 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S001B

PARAMETER	RESULTS	Q	QNT. LIHIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.3		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		25	MG/KG
Silver	ND		1.0	MG/KG

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASB I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14501 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S001C

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	6.4		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

270231

JOB NUMBER : 9101.507

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14506.03	P27-S008D	SPNPHL1	06/25/91		07/04/91
14507.01	P27-GW015	WPNPRG1	06/25/91		06/28/91
14507.03	P27-GW015	WPNP&P1	06/25/91		07/04/91
		WPNPAH1	06/25/91		06/29/91
		WPNPHL1	06/25/91		06/29/91
14507.04	P27-GW015	WPNTPH1	06/25/91		06/27/91
14507.05	P27-GW015	WPNMET1	06/25/91		06/28/91

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)	SPE	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)	SPE	1	07/18/91		07/23/91
16409.01	P27-S008A (14503)	SPE	1	07/18/91		07/23/91
16410.01	P27-S008B (14504)	SPE	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)	SPE	1	07/18/91		07/23/91
16413.01	P27-S009A (14375)	SPE	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

270232

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
16426.01	P27-S012A (14264)	SPE	1	07/18/91		07/23/91
16427.01	P27-S012B (14265)	SPH	1	07/18/91		07/23/91
16428.01	P27-S012C (14266)	SPH	1	07/18/91		07/23/91
16429.01	P27-S012D (14267)	SPE	1	07/18/91		07/23/91
16430.01	P27-S013A (14268)	SPE	1	07/18/91		07/23/91
16431.01	P27-S013B (14269)	SPH	1	07/18/91		07/23/91
16432.01	P27-S013C (14270)	SPH	1	07/18/91		07/23/91
16433.01	P27-S013D (14271)	SPE	1	07/18/91		07/23/91
16434.01	P27-S014A (14388)	SPH	1	07/18/91		07/23/91
16435.01	P27-S014AD(14389)	SPH	1	07/18/91		07/23/91
16436.01	P27-S014B (14390)	SPH	1	07/18/91		07/23/91
16437.01	P27-S014C (14391)	SPH	1	07/18/91		07/23/91
16438.01	P27-S015A (14392)	SPH	1	07/18/91		07/23/91
16439.01	P27-S015B (14393)	SPH	1	07/18/91		07/23/91
16440.01	P27-S015C (14394)	SPH	1	07/18/91		07/23/91
16441.01	P27-S015D (14395)	SPH	1	07/18/91		07/23/91
16442.01	P27-S016B (14396).	SPH	1	07/18/91		07/23/91
16443.01	P27-S016C (14597)	SPH	1	07/18/91		07/23/91
16444.01	P27-SD001 (14596)	SPH	1	07/18/91		07/23/91

JOB NUMBER : 9102.102

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATB SAMPLED	DATE EXTRACTED	DATE ANALYZED
20576.03	P27-S017CD	SPNPAH1	08/27/91		09/05/91
		SPNPHL1	08/27/91		09/06/91

270233

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14502 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S001D

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

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 r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BB-91-14363 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S002A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	5.5		2.0	MG/KG
Lead	8.7		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

270234

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14366 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S002D

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 LIHIT
NA = NOT APPLICABLE

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
SAMPLE ID LAB : BB-91-14367 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S003A

PARAMETER	RESULTS	a	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	3.3		1.0	MG/KG
Zinc	5.0		2.0	MG/KG
&ad	5.4		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

270235

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14364 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S002B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	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 :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14365 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S002C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	7.7		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

270236

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14372 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S004B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.1		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		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
NA = NOT APPLICABLE

JOB NUMBER r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BB-91-14373 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S004C

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

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

270237

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14370 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S003D

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

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

JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14371 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S004A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	2.3		1.0	MG/KG
Zinc	10		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

270238

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14368 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S003B

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

JOB NUMBER r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SMPLB ID LAB : BE-91-14369 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S003C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	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

270239

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14374 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S004D

PARAMETER	RESULTS	Q	QNT. LIHIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	4.1		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 LIHIT
NA = NOT APPLICABLE

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14253 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S005A

PARAMETER	RESULTS	a	QNT. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.8		1.0	MG/KG
Zinc	3.1		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	0.57		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

270240

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAHPLE ID LAB : EE-91-14254 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S0058

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	11		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCB 2
RESULTS IN WET WEIGHT
SAHPLE ID LAB : BB-91-14255 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S005C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	ND		1.0	MG/KG
Zinc	2.1		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

270241

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET UEIGET
SAMPLE ID LAB : EE-91-14257 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S006A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.2		1.0	MG/KG
Zinc	3.7		2.0	MG/KG
Lead	9.7		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

HETALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAXPLE ID LAB : EE-91-14256 MATRIX: SOLID
SAXPLE ID CLIENT: P27-S005D

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

270242

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14259 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S006C

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	4.6		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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14258 MATRIX: SOLID
SAMPLE ID CLIENT: P27-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

270243

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14261 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S007A

PARAMETER	RESULTS	Q	QNT. LIHIT	UNITS
Arsenic	ND		6.9	MG/KG
Chromium	1.3		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 = ESTIXATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14260 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S006D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	9.0		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

270244

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14263 MATRIX: SOLID
SAMPLE ID CLIENT: P27-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 = COHMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14262 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S007B

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

270245

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EB-91-14504 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S008B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.6		1.0	MG/KG
Zinc	2.0		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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAD : EB-91-14503 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S008A

PARAMETER	RESULTS	Q	QNT. LIMIT	WITS
Arsenic	ND		6.0	MG/KG
Chromium	2.2		1.0	MG/KG
Zinc	3.5		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

270246

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14506 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S008D

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

JOB NUMBER :9101.507

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-1450s MATRIX: SOLID
SAMPLE ID CLIENT: P27-S008C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	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

270247

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EB-91-14382 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S010D

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14381 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S010C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	9.6		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

270248

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN UET WEIGHT
SAMPLE ID LAB : BE-91-14380 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S010B

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14379 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S010A

PARAMETER	RBSULTS	Q	QNT. LIMIT	UNITS
Arsenic	13		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

270249

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : BE-91-14378 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S009D

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 BELOV STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9101.495

Bcology urd Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14377 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S009C

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

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

270250

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Servlcts Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14376 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S009B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	10		6.0	MG/KG
Chromium	1.5		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 r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14375 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S009A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	12		6.0	MG/KG
Chromium	1.4		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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

270251

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14383 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14384 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	2.0		1.0	MG/KG
Zinc	3.8		2.0	MG/KG
Lead	8.6		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
NA = NOT APPLICABLE

270252

JOB NUMBER r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14385 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011BD

PARAMETER	RESULTS	0	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.7		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14386 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011C

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 = PRBSENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

270253

JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14387 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011D

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

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

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : BB-91-14264 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S012A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	7.0		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

270254

METALS SECTION JOB NUMBER t9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14265 MATRIX: SOLID
SAMPLE ID CLIENT: P27-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 LIHIT

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14266 MATRIX: SOLID
SAMPLE ID CLIENT: P27-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

270255

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-14267 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S012D

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

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAHPLE ID LAB : EE-91-14268 MATRIX: SOLID
SAHPLE ID CLIENT: P27-S013A

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

270256

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14269 MTRIX: SOLID
SAMPLE ID CLIENT: P27-S013B

PARAMETER	RESULTS	0	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

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : BE-91-14270 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S013C

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
Nickcl	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

270257

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14271 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S013D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	9.5		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

JOB NUMBER r9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14388 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S014A

PARAMETER	RBSULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.7		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 = ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

270258

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14394 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S015C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.7		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 BELOW STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BB-91-14393 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S015B

PARAMETER	RESULTS	Q	QNT. LIHIT	UNITS
Arsenic	7.7		6.0	MG/KG
Chromium	3.7		1.0	MG/KG
Zinc	11		2.0	MG/KG
Lead	32		4.0	MG/KG
Cadmium	0.52		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		215	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

270259

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14396 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S016B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.5		1.0	MG/KG
Zinc	8.7		2.0	MG/KG
Lead	13		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 :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14395 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S015D

PARAMETER	RBSULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.1		1.0	MG/KG
Zinc	2.5		2.0	MG/KG
Lead	5.3		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.s	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

270260

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID **LAB** : EE-91-20573 **MATRIX:** SOLID
SAMPLE ID CLIENT: P27-S017A

PARAMETER	RESULTS	Q	QNT. LIHIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	3.1		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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14397 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S016C

PARAMETER	RBSULTS	Q	QNT. LIHIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	2.4		1.0	MG/KG
Zinc	8.8		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

270261

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20575 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S017C .

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

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

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20574 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S017B

PARAMETER	RESULTS	Q	QNT. LIXIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	9.8		1.0	MG/KG
Zinc	ND		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	5.1		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

270262

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20563 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S018A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.8		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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
SAMPLE ID LAB : EE-91-20576 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S017CD

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 BELOU STATED DETECTION LIMIT

270263

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-14392 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S015A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	10		1.0	MG/KG
Zinc	70		2.0	MG/KG
Lead	120		4.0	MG/KG
Cadmium	1.5		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	5.8		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SMPLE ID LAB : EB-91-14391 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S014C

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 LIMIT
NA = NOT APPLICABLE

270264

JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14390 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S014B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : BE-91-14389 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S014AD

PARAMETER	RBSULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	2.2		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
NA = NOT APPLICABLE

270265

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20564 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S018B

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

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

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20565 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S018C

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN VET WEIGHT
SAHPLE ID LAB : EE-91-20566 MATRIX: SOLID
SAHPLE ID CLIENT: P27-S018D

PARAMETER	RESULTS	0	ONT. 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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20567 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S019A

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

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

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20568 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S019B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.3		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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20569 MATRIX: SOLID
SAHPLE ID CLIENT: P27-S019C

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 E = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20570 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S020A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	2.1		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

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20571 MATRIX: SOLID
SAMPLE ID CLIENT: **P27-S020B**

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		6.0	MG/KG
Chromium	1.4		1.0	MG/KG
Zinc	2.4		2.0	MG/KG
Lead	ND		4.0	MG/KG
Cadmium	ND		0.50	MG/KG
Nickel	ND		4.0	MG/KG
Copper	ND		2.5	MG/KG
Silver	ND		1.0	MG/KG

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

METALS SECTION JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : EE-91-20572 MATRIX: SOLID
SAMPLE ID CLIENT: P27-SO2OC

PARAMETER	RESULTS	Q	QNT. LIHIT	UNITS
Arsenic	NO		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 19101.507

Ecology and Bnvironment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE 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
Chronium	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 :9101.495

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 LIHIT
NA = NOT APPLICABLE

METALS SECTION JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCB 2
RESULTS IN WET WEIGHT
SAMPLE ID LAB : METHOD BLANK MTRIX: SOLID

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 = ESTIMTED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

METALS SECTION JOB NUMBER :9102.102

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. 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

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

9101.495

(mg/kg)

Parameter	E & E Laboratory No. 91-14371	Original Analysis	Replicate Analysis	Rclativc Percent Difference (RPD)
Arsenic		ND	ND	NC
Chromium		2.3	1.9	19
Zinc		10	ND	NC
Lead		ND	ND	NC
Cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

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

9101.495

(mg/kg)

Parameter	E & E Laboratory No. 91-14381	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		9.6	ND	NC
Chromium		ND	1.2	NC
Zinc		ND	ND	NC
Lead		ND	ND	NC
Cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

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

9101.495

(mg/kg)

Parameter	E & E Laboratory No. 91-14391	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Chromium		ND	ND	NC
Zinc		3.2	3.4	6.1
Lead		ND	ND	NC
Cadmium		ND	ND	NC
Nickel		ND	ND	NC
Copper		ND	ND	NC
Silver		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

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

9101.474

(mg/kg)

Parameter	E & E Laboratory No. 91-14264	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		7.0	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		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

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

9102.102

(mg/kg)

Parameter	E & E Laboratory No. 91-20567	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Cadmium		ND	ND	NC
Chromium		2.2	1.7	26
Copper		ND	ND	NC
Lead		ND	ND	NC
Nickel		ND	ND	NC
Silver		ND	ND	NC
Zinc		ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED SOLID SAMPLES

9101.495

(mg/kg)

Parameter	E C E Laboratory No. 91-14371	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	200	102
Chromium		2.3	20	22	97
Zinc		10	50	54	a7
Lead		ND	50	47	94
Cadmium		ND	5.0	5.4	107
Nickel		ND	50	51	103
Copper		ND	25	24	98
Silver		ND	5.0	4.5	90

ND = NOT DETECTED

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

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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED SOLID SAMPLES

9101.495

(mg/kg)

Parameter	E & E Laboratory No. 91-14381	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		9.6	200	210	99
Chromium		ND	20	22	112
Zinc		ND	50	50	101
Lead		ND	50	50	100
Cadmium		ND	5.0	5.0	100
Nickel		ND	50	52	104
Copper		ND	2s	24	98
Silver		ND	5.0	4.8	95

ND = NOT DETECTED

** = RECOVERY NOT DETERHINED BECAUSE SAHPLE AMOUNT IS FOUR OR MORE TIMES GREATER THAN SPIKE AMOUNT.

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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.495

(mg/kg)

Parameter	E & E Laboratory No. 91-14391	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	220	109
Chromium		ND	20	22	110
Zinc		3.2	50	53	100
Lead		ND	50	51	102
Cadmium		ND	5.0	5.0	99
Nickel		ND	50	53	107
Copper		ND	25	24	97
Silver		ND	5.0	5.1	101

ND = NOT DETECTED

** = RECOVERY NOT DETERMINED BECAUSE SAHPLE 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

9101.474

(mg/kg)

Parameter	E & E Laboratory No. 91-14264	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		7.0	200	200	96
Cadmium		ND	5.0	4.3	86
Chromium		ND	20	20	100
Copper		ND	25	25	100
Lead		ND	50	53	106
Nickel		ND	50	47	94
Silver		ND	5.0	4.9	98
Zinc		ND	50	49	98

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED SOLID SAMPLES

9102.102

(mg/kg)

Parameter	E C E Laboratory No. 91-20567	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	200	180	88
Cadmium		ND	5.0	4.6	93
Chromium		2.2	20	21	95
Copper		ND	25	23	92
Lead		ND	50	48	97
Nickel		ND	50	49	98
Silver		ND	5.0	5.2	103
Zinc		ND	50	50	96

ND = NOT DETECTED

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14499 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S001A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	17		5.0	MG/KG

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14500 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S001B

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

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14501 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S001C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	14		5.0	MG/KG

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14502 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S001D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	51		5.0	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 LIHIT
NA = NOT APPLICABLE

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14363 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S002A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	63		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14364 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S002B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	6.2		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14365 MATRIX: SOLID
SAHPLE ID CLIENT: P27-S002C

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 LIHIT
NA = NOT APPLICABLE

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
SAMPLE ID LAB :EE-91-14366 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S002D

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 BELOV STATED DETECTION LIMIT
NA = NOT APPLICABLE

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCB 2
SAMPLE ID LAB :EE-91-14367 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S003A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	29		5.0	MG/KG

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAHPLE ID LAB :EE-91-14368 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S003B

PARAMETER	RESULTS	Q	QNT. LIHIT	UNITS
TRPH	6.4		5.0	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14369 MATRIX: SOLID
SAHPLE ID CLIENT: P27-S003C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	8.2		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14370 MATRIX: SOLID
SAHPLE ID CLIENT: P27-S003D

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
SAMPLE ID LAB :EE-91-14371 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S004A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	12		5.0	MG/KG

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14372 MATRIX: SOLID
SAMPLE ID CLIENT: P27-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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCR 2
SAMPLE ID LAB :EE-91-14373 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S004C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	7.3		5.0	MG/KG

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.474

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-91-14267 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO12D

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14268 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO13A

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 - dichlorocthane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dlchloroethane	ND		1000
Trichloroethenc	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.474

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-91-14269 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO13B

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 - Trichlorocthane	ND		1000
1,2 - Dichloroethanc	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 :9101.474

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-91-14270 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013C

PARAMETER	RESULTS	O	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 - dichloroethena	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethenc	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.474

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-91-14271 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013D

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzenc	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 - dichlorocthanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Totrachloroethene	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 :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PURGABLBS- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14388 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014A

PARAMETER	RESULTS	0	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 - dichloroethcne	ND		1000
Methylene Chloride	ND		1000
Trans-1.2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichlorocthanc	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14389 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO14AD

PARAMETER	RESULTS	Q	ONT. 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 - dichloroathene	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 - Dlchloroethane	ND		1000
Trichloroathene	ND		1000
Tetrachloroathenc	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIEUT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14390 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014B

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 LIHIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TBST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14391 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014C

PARAMETER	RESULTS	Q	QNT. LIHIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	1400		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 NO = NOT DETECTED
J = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN VET VEIGET
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14392 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S015A

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 - Trichloroethame	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 :9101.495

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-91-14393 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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
Hethylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichlorocthane	ND		1000
1,1,1 - Trichlorocthane	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14394 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 - 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
Trichlorocthene	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 :9102.102

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-91-20573 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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
Hcthylene 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 = ESTIHATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9102.102

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-91-20574 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017B

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 LIHIT

TEST CODE :SPNPRG1 JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET UEIGET
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20575 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO17C

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

TEST CODE :SPNPRG1 JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20576 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017CD

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-20563 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S018A

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14374 MATRIX: SOLID
SAXPLE ID CLIENT: P27-S004D

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 LIXIT
NA = NOT APPLICABLE

TEST CODE :SPNTPH1 JOB NUMBER :9101.474

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. LIHIT
BE-91-14253 P27-S005A	ND		5.0
EE-91-14254 P27-S005B	ND		5.0
EE-91-14255 P27-S005C	ND		5.0
EE-91-14256 P27-S005D	ND		5.0
EE-91-14257 P27-S006A	ND		5.0
EE-91-14258 P27-S006B	ND		5.0
EE-91-14259 P27-S006C	ND		5.0
EE-91-14260 P27-S006D	ND		5.0
EB-91-14261 P27-S007A	ND		5.0
EE-91-14262 P27-S007B	ND		5.0
EE-91-14263 P27-S007C	ND		5.0
EE-91-14264 P27-S012A	ND		5.0
EE-91-14265 P27-S012B	7.2		5.0

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

TEST CODE :SPNTPH1 JOB NUMBER :9101.474

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-91-14266 P27-S012C	ND		5.0
EE-91-14267 P27-S012D	310		5.0
EE-91-14268 P27-S013A	ND		5.0
EE-91-14269 P27-S013B	ND		5.0
EE-91-14270 P27-S013C	6.5		5.0
EE-91-14271 P27-S013D	5.4		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 PRECISION
RESULTS OF ANALYSIS OF REPLICATE
ANALYSES OF SOLID SAMPLES

9101.474

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. RECOVERABLE PETROLEUM HYDROCARBON	Batch QC	ND	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14503 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S008A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	12		5.0	MG/KG

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14504 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S008B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	40		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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
SAHPLE ID LAB :EE-91-14505 HATRIX: SOLID
SAMPLE ID CLIENT: P27-S008C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	39		5.0	MG/KG

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Centcr

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14506 MATRIX: SOLID
SAHPLE ID CLIENT: P27-S008D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	49		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14375 MATRIX: SOLID
SAMPLE ID CLIENT: P27-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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
SAMPLE ID LAB :EE-91-14376 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S009B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	7.0		5.0	MG/KG

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :BE-91-14377 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S009C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	12		5.0	MG/KG

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14378 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S009D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	7.0		5.0	MG/KG

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14379 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S010A

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 :9101.495

Ecology and Environment, Inc,
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14380 MATRIX: SOLID
SAHPLE ID CLIENT: P27-S010B

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	120		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14381 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S010C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	11		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14382 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S010D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	8700		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :BE-91-14383 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011A

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
SAMPLE ID LAB :EE-91-14384 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011B

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14387 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	8300		5.0	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14388 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S014A

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	11		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14385 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011BD

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	7.9		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14386 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S011C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	39		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

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

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-91-14364 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002B

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, - Dichlorocthcne	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 BUNK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

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-91-14365 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002C

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NMB : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14366 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002D

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Bthylbcnzena	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethenc	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethanc	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 :9101.495

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 : EE-91-14367 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003A

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzcnc	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 :9101.495

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-91-14368 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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
Hethylcne 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
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 LIHIT

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

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-91-14369 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003C

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Bthylbenzcne	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EB-91-14370 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003D

PARAMETER	RBSULTS	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
Tetrachloroathena	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

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-91-14371 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S004A

PARAMETER	RESULTS	O -	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 - Dichloroethanc	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

TBST CODE :SPNPRG1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TBST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14372 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004B

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		1006
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 :9101.495

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-91-14373 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004C

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, - Dichloroethenc	ND		1000
1,1 - dichloroethana	ND		1000
1,1,1 - Trichloroethanc	ND		1000
1,2 - Dichloroethana	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthcnc	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TBST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14374 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004D

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, - Dichloroethenc	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.474

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-91-14253 UATRIX : SOLID
SAMPLE ID CLIENT: P27-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 - dichloroethanc	ND		1000
1,1,1 - Trichlorocthane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichlorocthene	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 :9101.474

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
SMPLE ID LAB : EB-91-14254 MATRIX : SOLID
SMPLE ID CLIENT: P27-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
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 :9101.474

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-91-14255 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 - dichlorocthene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichlorocthenc	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichlorocthane	ND		1000
1,2 - Dichloroethanc	ND		1000
Trichloroethcne	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 :9101.474

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-91-14258 MTRIX : SOLID
SAMPLE ID CLIENT: P27-S006B

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

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14259 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S006C

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 - dichloroethanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PURGABLBS- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14256 MATRIX : SOLID
SAMPLB ID CLIENT: P27-S005D

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 - dichloroathene	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 :9101.474

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-91-14257 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S006A

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 :9101.474

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-91-14260 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S006D

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
Tetrachloroethena	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 :9101.474

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-91-14261 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S007A

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, - Dichloroethenc	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethanc	ND		1000
1,2 - Dichloroethane	ND		1000
Trlchloroethenc	ND		1000
Tetrachlorocthene	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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14262 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 - dichloroethme	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 - Dichlorocthanc	ND		1000
Trichloroethene	ND		1000
Tetrachloroethane	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 :9101.474

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-91-14263 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S007C

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 - dichloroethcnc	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
Trichlorocthene	ND		1000
Tetrachlorocthene	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 :9101.507

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-91-14503 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008A

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 - dichlorocthane	ND		1000
1,1,1 - Trichlotoethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthenc	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14504 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008B

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 :9101.507

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-91-14505 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008C

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.507

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-91-14506 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008D

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 t9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 UASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14375 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 - dichloroethcne	ND		1000
Hethylcnc Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dlchlorocthanc	ND		1000
1,1,1 - Trlchloroethanc	ND		1000
1,2 - Dichloroethane	ND		1000
Trichlorocthcnc	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASB I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14376 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S009B

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
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 CODB :SPNPRG1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14377 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S009C

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
Hethylene 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
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 :9101.495

Bcology 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 : BE-91-14378 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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
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
Trichloroethcne	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASB I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14379 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010A

PARAMETER	RBSULTS	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
Trichloroethene	ND		1000
Tetrachloroethens	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14380 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010B

PARAMETER	RESULTS	Q	QNT. LIHIT
Benztne	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 :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14381 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO10C

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, - Dichlorocthene	ND		1000
1,1 - dichloroethanr	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethcne	ND		1000
Tatrachloroethenr	ND		1000
chlorobenzene	ND		1000

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

TEST CODB :SPNPRG1 JOB NUMBER r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAXE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14382 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010D

PARAMETER	RESULTS	Q	QNT. LIHIT
Benzene	ND		20000
Toluene	PRESENT	L	20000
Ethylbenzene	PRESENT	L	20000
Total Xylenes	47000		20000
1,2 - Dichlorobenzene	ND		20000
1,3 - Dichlorobenzene	ND		20000
1,4 - Dichlorobenzene	ND		20000
1,1 - dichlorocthene	ND		20000
Hethylenc Chloride	ND		20000
Trans-1,2, - Dfchloroethene	ND		20000
1,1 - dichloroethane	ND		20000
1,1,1 - Trichloroethane	ND		20000
1,2 - Dichlorocthane	ND		20000
Trichlorocthenc	ND		20000
Tctrachloroethenc	ND		20000
chlorobenzene	ND		20000

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 r9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PURGABLBS- GC UNITS : UG/KG
SAMPLE ID LAB : BB-91-14383 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011A

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroathanc	ND		1000
1,1,1 - Trichloroathanc	ND		1000
1,2 - Dichloroethana	ND		1000
Trichloroethane	ND		1000
Tetrachloroathenc	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 :9101.495

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-91-14384 MATRIX : SOLID
SAMPLE ID CLIENT! P27-S011B

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Total Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
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 CODB :SPNPRG1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT t UH-8000 NASP - PRASE I BATCH 2
RBSULTS IN WET WEIGHT
TBST NAME t PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14385 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011BD

PARAMETER	RBSULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbenzene	ND		1000
Tot81 Xylenes	ND		1000
1,2 - Dichlorobenzene	ND		1000
1,3 - Dichlorobenzene	ND		1000
1,4 - Dichlorobenzene	ND		1000
1,1 - dichloroethene	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WIGHT
TBST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14386 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011C

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
Hethylene Chloride	ND		1000
Trans-1,2, - Dichloroethenc	ND		1000
1,1 - dichlorocthane	ND		1000
1,1,1 - Trlchloroethane	ND		1000
1,2 - Dlchlorocthanc	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14387 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011D

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		2 m
Toluene	PRESENT	L	2 m
Ethylbenzene	PRESENT	L	2 m
Total Xylenes	37000		2 m
1,2 - Dichlorobenzene	ND		2 m
1,3 - Dichlorobenzene	ND		20000
1,4 - Dichlorobenzene	ND		20000
1,1 - dichloroethene	ND		2 m
Methylene Chloride	ND		20000
Trans-1,2, - Dichloroethene	ND		20000
1,1 - dichloroethane	ND		20000
1,1,1 - Trichloroathane	ND		20000
1,2 - Dichloroethane	ND		2 m
Trichloroethene	ND		2 m
Tetrachloroethene	ND		20000
chlorobenzene	PRESENT	L	20000

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 :9101.474

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-91-14264 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S012A

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, - Dichloroethenc	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 :9101.474

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
SAHPLE ID LAB : EE-91-14265 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S012B

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
Trichloroethane	ND		1000
Tetrachloroethane	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.474

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 : EE-91-14266 MATRIX : SOLID
SAXPLE ID CLIENT: P27-S012C

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
Trichloroethane	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 LIHIT

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14389 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S014AD

PARAMETER	RBSULTS	Q	QNT. LIMIT	UNITS
TRPH	11		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14390 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S014B

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

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JOB NUMBER r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14391 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S014C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	45		5.0	MG/KG

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14393 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S015B

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

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14395 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S015D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	9.0		5.0	MG/KG

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14397 MATRIX: SOLID
SAMPLE ID CLIENT: P27-S016C

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	14		5.0	MG/KG

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

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

9101.507

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Ralative Percent Difference (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 FROM THE RAW DATA.

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

9102.102

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
T. RECOVERABLE PETROLEUM HYDROCARBONS				
	20567	ND	6.4	NC
	20576	7.1	ND	NC

ND = NOT DETECTED

NC = NOT CALCULABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOLID SAMPLES

9101.507

(mg/kg)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Petrolcum Hydrocarbons					
	Batch QC	ND	130	120	93

ND = NOT DETECTED

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

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

TEST CODE : SPNTPH1 JOB NUMBER : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	QNT. LIMIT
E&-91-20563 P27-S018A	6.5		5.0
EE-91-20564 P27-S018B	ND		5.0
EE-91-20565 P27-S018C	ND		5.0
EE-91-20566 P27-S018D	ND		5.0
EE-91-20567 P27-S019A	ND		5.0
EE-91-20568 P27-S019B	ND		5.0
EE-91-20569 P27-S019C	ND		5.0
EE-91-20570 P27-S020A	21		5.0
EE-91-20571 P27-S020B	7.6		5.0
BE-91-20572 P27-S020C	ND		5.0
EE-91-20573 P27-S017A	ND		5.0
EE-91-20574 P27-S017B	13		5.0
EE-91-20575 P27-S017C	270		5.0

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

TEST CODE :SPNTPH1 JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-20576			
P27-S017CD	7.1		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 :SPNPRG1 JOB NUMBER :9101.507

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-91-14499 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001A

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 :9101.507

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-91-14500 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 - dichloroethenc	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethene	ND		1000
1,1 - dichloroethanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

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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 :9101.507

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-91-14501 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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

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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 :9101.507

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-91-14502 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001D

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, - Dlchloroethene	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichloroethene	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

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
SMPLE ID LAB : EE-91-14363 MATRIX : SOLID
SMPLE ID CLIENT: P27-SOO2A

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 - dichlorocthcne	ND		1000
Methylene Chloride	ND		1000
Trans-1,2, - Dichloroethcne	ND		1000
1,1 - dichlorocthanc	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichlorocthane	ND		1000
Trichloroethene	ND		1000
Tetrachlorocthcne	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 :9102.102

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-91-20564 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018B

PARAXETER	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, - Dlchloroethene	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 :9102.102

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-91-20565 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018C

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 a NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE :SPNPRG1 JOB NUMBER :9102.102

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-91-20566 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018D

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

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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 :SPNPRG1 JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20567 HATRIX : SOLID
SAMPLE ID CLIENT: P27-SO19A

PARAMETER	RESULTS	0	ONT. 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

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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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-20568 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S019B

PARAMETER	RE ULTS	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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : 08-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PURGABLES- GC UNITS : UG/KG
SAHPLE ID LAB : EE-91-20569 MATRIX : SOLID
SAXPLE ID CLIENT: P27-S019C

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

TEST CODE :SPNPRG1 JOB NUMBER :9102.102

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-91-20570 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO20A

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 :9102.102

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-91-20571 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO20B

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 :9102.102

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-91-20572 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S020C

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

TEST CODE :SPNPRG1 JOB NUMBER :9102.102

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

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 :9102.102

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	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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAXE : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 1 XATRIX : SOLID

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PURGABLES- GC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 2 MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		1000
Toluene	ND		1000
Ethylbanzena	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, - Dichloroethena	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethane	ND		1000
1,2 - Dichloroethane	ND		1000
Trichlorocthena	ND		1000
Tetrachloroethene	ND		1000
chlorobenzene	ND		1000

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

TEST CODE :SPNPRG1 JOB NUMBER :9101.495

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 #1 MATRIX : SOLID

PARAMETER	RBSULTS	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, - Dichloroethenc	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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

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

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, - Dichloroethane	ND		1000
1,1 - dichloroethane	ND		1000
1,1,1 - Trichloroethanc	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 :9101.495

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
SAHPLE ID LAB : METHOD BLANK #3 MATRIX : SOLID

PARAMETER	RESULTS	0	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 - Trichlorocthane	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 :9101.507

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

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

9101.507

(ug/kg)

Parameter	E & E Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	2500	2600	104
Toluene		ND	2500	2300	92
Ethyl Benzene		ND	2500	2200	88
1,2-Dichlorobenzene		ND	2500	1800	72
1,3-Dichlorobenzene		ND	2500	1800	72
1,4-Dichlorobenzene		ND	2500	1800	72
1,1-Dichloroethene		ND	2500	1800	72
Methylene Chloride		ND	2500	2100	84
Trans-1,2-Dichloroethene		ND	2500	2100	84
1,1-Dichloroethane		ND	2500	1900	76
1,1,1-Trichloroethane		ND	2500	2400	96
1,2-Dichloroethane		ND	2500	2300	92
Trichloroethene		ND	2500	2300	92
Tctrachloroethene		ND	2500	1900	76

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY *AND* PRECISION:
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
OF SOIL MATRIX SPIKE (MS) *AND* MATRIX SPIKE DUPLICATE (HSD)
(Sample # 20563)

9102.102

(ug/kg)

Parameter	Original Value	Amount Added		Amount Determined		Percent Recovery		
		HS	MSD	HS	HSD	MS	HSD	RPD
Benzene	ND	2500	2500	2300	2400	92	96	4.3
Toluene	ND	2500	2500	2400	2400	96	96	0
Ethyl Benzene	ND	2500	2500	2400	3100	96	124	25
1,2-Dichlorobenzene	ND	5000	5000	3700	3600	74	72	2.7
1,3-Dichlorobenzene	ND	5000	5000	3200	3100	64	62	3.1
1,4-Dichlorobenzene	ND	5000	5000	6800	6400	136	128	6.1
1,1-Dichloroethene	ND	2500	2500	1400	1500	56	60	6.9
Hethylene Chloride	ND	2500	2500	1500	1300	60	52	14
Trans-1,2-Dichloroethene	ND	2500	2500	2100	2100	84	84	0
1,1-Dichloroethane	ND	2500	2500	2100	2100	84	84	0
1,1,1-Trichloroethane	ND	2500	2500	2200	2200	88	88	0
1,2-Dichloroethane	ND	2500	2500	1800	1800	72	72	0
Trichloroethene	ND	2500	2500	2000	2000	80	80	0
Tetrachloroethene	ND	2500	2500	2140	3300	86	132	43

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 # 14393)

9101.495

(ug/kg)

Parametar	Original Value	Amount Added		Amount Determined		Percent Recovery		
		MS	MSD	MS	MSD	MS	HSD	RPD
Benzene	ND	2500	2500	2400	2300	96	92	4.2
Toluene	ND	2500	2500	2600	2400	104	96	8
Ethyl Benzene	ND	2500	2500	2300	2100	92	84	9.1
1,2-Dichlorobenzene	ND	2500	2500	2200	2100	88	84	4.7
1,3-Dichlorobenzene	ND	2500	2500	2000	1900	80	76	5.1
1,4-Dichlorobenzene	ND	2500	2500	2000	1900	80	76	5.1
1,1-Dichloroethene	ND	2500	2500	1100	1400	44	56	24
Methylene Chloride	ND	2500	2500	2000	1800	80	72	11
Trans-1,2-Dichloroethene	ND	2500	2500	2000	1800	80	72	11
1,1-Dichloroethane	ND	2500	2500	3100	2900	124	116	6.7
1,1,1-Trichloroethane	ND	2500	2500	2800	2600	112	104	7.4
1,2-Dichloroethane	ND	2500	2500	2800	2800	112	112	0
Trlchloroethene	ND	2500	2500	2500	2300	100	92	8.3
Tetrachloroethenc	ND	2500	2500	2400	2200	96	88	8.7

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 (MSD)
(Sample # 14499)

9101.507

(ug/kg)

Parameter	Original Value	Amount Added		Amount Determined		Percent Recovery		
		HS	HSD	HS	HSD	HS	HSD	RPD
Benzene	ND	2500	2500	2200	2300	88	92	4.4
Toluene	ND	2500	2500	2300	2400	92	96	4.3
Ethyl Benzene	ND	2500	2500	2000	2200	80	88	9.5
1,2-Dichlorobenzene	ND	5000	5000	3600	4100	72	82	13
1,3-Dichlorobenzene	ND	5000	5000	3700	4100	74	82	10
1,4-Dichlorobenzene	ND	5000	5000	3700	4000	74	80	7.8
1,1-Dichloroethene	ND	2500	2500	1100	1200	44	48	8.7
Methylene Chloride	ND	5000	5000	3500	3900	70	78	11
Trans-1,2-Dichloroethene	ND	5000	5000	3500	3900	70	78	11
1,1-Dichloroethane	ND	2500	2500	2400	2700	96	108	12
1,1,1-Trichloroethane	ND	2500	2500	2200	2400	88	96	8.7
1,2-Dichloroethane	ND	2500	2500	2100	2400	84	96	13
Trichloroethene	ND	2500	2500	1800	2200	72	88	20
Tetrachloroethene	ND	2500	2500	1600	2000	64	80	22

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

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY:. PERCENT
RECOVERY OF SURROGATE SPIKES

9102.102

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	20563	90
	20564	87
	20565	83
	20566	73
	20567	110
	20568	110
	20569	103
	20570	100
	20571	97
	20572	97
	20573	93
	20574	90
	20575	80
	20576	52
	Method Blank #1	100
	Method Blank #2	100
1,4-Dichlorobutane	20563	96
	20564	72
	20565	90
	20566	81
	20567	98
	20568	79
	20569	86
	20570	84
	20571	76
	20572	87
	20573	85
	20574	75
	20575	84
	20576	53
	Method Blank #1	100
	Hethod Blank #2	100

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.474

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14253	83
	14254	84
	14255	75
	14256	83
	14257	92
	14258	71
	14259	86
	14260	91
	14261	114
	14262	113
	14263	114
	14264	106
1,4-Dichlorobutane	14253	91
	14254	87
	14255	91
	14256	96
	14257	85
	14258	79
	14259	96
	14260	93
	14261	116
	14262	105
	14263	106
	14264	100

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.474

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14265	86
	14266	96
	14267	98
	14268	98
	14269	90
	14270	82
	14271	76
	Hethod Blank 1	100
	Hethod Blank 2	100
1,4-Dichlorobutane	14265	84
	14266	95
	14267	90
	14268	97
	14269	89
	14270	77
	14271	78
	Hethod Blank 1	100
	Hethod Blank 2	100

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.495

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14363	100
	14364	103
	14365	100
	14366	94
	14367	104
	14368	121
	14369	100
	14370	93
	14371	107
	14372	114
	14373	88
	14374	88
	14375	103
	14376	97
1,4-Dichlorobutane	14363	74
	14364	78
	14365	65
	14366	59
	14367	73
	14368	95
	14369	83
	14370	79
	14371	93
	14372	90
	14373	93
	14374	94
	14375	109
	14376	121

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.495

Compound	E 6 E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14377	102
	14378	132
	14379	96
	14380	96
	14381	95
	14382	60
	14383	89
	14384	91
	14385	89
	14386	90
	14387	62
	14388	91
	14389	90
	14390	91
1,4-Dichlorobutane	14377	130
	14378	118
	14379	127
	14380	119
	14381	112
	14382	123
	14383	137
	14384	118
	14385	110
	14386	112
	14387	133
	14388	122
	14389	103
	14390	100

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.495

Compound	E & E Laboratory No. 91-	Perccnt Recovery
Trifluorotoluene	14391	98
	14392	98
	14393	103
	14394	100
	14395	98
	14396	102
	14397	96
	Method Blank #1	100
	Method Blank #2	100
	Method Blank #3	100
1,4-Dichlorobutane	14391	102
	14392	94
	14393	89
	14394	82
	14395	75
	14396	75
	14397	62
	Uethod Blank #1	100
	Uethod Blank #2	100
	Uethod Blank #3	100

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.507

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14499	107
	14499 HS	101
	14499 HSD	103
	14500	105
	14501	101
	14502	106
	14503	97
	14504	104
	14505	97
	14506	86
	Method Blank	100
1,4-Dichlorobutane	14499	91
	14499 MS	118
	14499 MSD	125
	14500	93
	14501	84
	14502	94
	14503	86
	14504	83
	14505	82
	14506	89
	Method Blank	100

TEST CODE : SPNPAH1 JOB NUMBER : 9101.507

Bcology 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-91-14499 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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

TEST CODE : SPNPAH1 JOB NUMBER : 9101.507

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-91-14500 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001B

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 : 9101.507

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-91-14501 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 BELOW STATED DETECTION LIMIT

TEST CODE : SPNPAH1 JOB NUMBER 39101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14502 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001D

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14363 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002A

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 : 9101.495

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-91-14364 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002B

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.495

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-91-14365 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002C

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.495

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 : EB-91-14366 MATRIX : SOLID
SAMPLE ID CLIENT! P27-S002D

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 CODB :SPNPAH1 JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASB I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PAE - LC UNITS : UG/KG
SAMPLE ID LAB : BB-91-14367 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003A

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

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

TEST CODE : SPNPAH1 JOB NUMBER : 9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NME : PNC PAB - LC UNITS : UG/KG
SMPLE ID LAB : EE-91-14369 MATRIX : SOLID
SMPLE ID CLIENT: P27-S003C

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 :9101.495

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-91-14370 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003D

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 NUMB= :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SMPLB ID LAB : BE-91-14371 MATRIX : SOLID
SMPLB ID CLIENT: P27-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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14372 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.495

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-91-14373 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 CODB : SPNPAH1 JOB NUMBER : 9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14374 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004D

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 LIHIT

TEST CODE : SPNPAB1 JOB NUMBER : 9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAB - LC UNITS : UG/KG
SAMPLE ID LAB : BB-91-14253 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S005A

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 : 9101.474

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-91-14254 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S005B

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 : 9101.474

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-91-14255 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 BELOV STATED DETECTION LIMIT

TEST CODE :SPNPAH1 JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAE - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14256 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S005D

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 : 9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST **NAME** : PNC PAH - LC UNITS : UG/KG
SAMPLE ID **LAB** : EE-91-14257 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.474

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
SAMPLE ID LAB : EE-91-14258 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.474

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-91-14259 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 : 9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14260 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S006D

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 :9101.474

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-91-14261 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 : SPNPAH1 JOB NUMBER : 9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAB - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14262 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S007B

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PAB - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14264 MATRIX : SOLID
SMPLE ID CLIENT: P27-S012A

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCB 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14265 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S012B

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 :9101.474

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-91-14266 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 : 9101.474

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-91-14267 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S012D

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 : 9101.507

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-91-14503 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008A

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

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

TEST CODE : SPNPAH1 JOB NUMBER r9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14504 HATRIX : SOLID
SAMPLE ID CLIENT: P27-S008B

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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14505 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008C

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.507

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-91-14506 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008D

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 : 9101.495

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-91-14375 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S009A

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 CODB :SPNPAH1 JOB NUMBER :9101.495

Bcology 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-91-14376 MATRIX : SOLID
SMPLE ID CLIENT: P27-S009B

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

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

TEST CODE :SPNPAH1 JOB NUMBER :9101.495

Ecology and Bnvironment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TBST NAME : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : BB-91-14377 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14378 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 : 9101.495

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-91-14379 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010A

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 :9101.495

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-91-14380 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010B

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 :9101.495

Bcology and Bnvironment, 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-91-14381 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010C

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 :9101.495

Bcology 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 : BE-91-14382 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010D

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	2100		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 39101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EB-91-14383 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011A

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

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

TEST CODE : SPNPAH1 JOB NUMBER r9101.495

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-91-14384 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011B

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 :9101.495

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
SAMPLE ID LAB : BE-91-14385 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011BD

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 : 9101.495

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-91-14386 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011C

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 CODB :SPNPAH1 JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHB : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14387 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011D

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Benzo-a-pyrene	1400		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 :9101.474

Ecology and Environment, Inc.
Analytical Services Canter

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14268 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013A

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 : 9101.474

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
SAMPLE ID LAB : EE-91-14269 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S0138

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Bcnzo-a-pyrene	1100		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 :9101.474

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-91-14270 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013C

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WIGHT
TEST NAXE : PNC PAE - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14271 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013D

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14388 MATRIX : SOLID
SAHPLB ID CLIENT: P27-S014A

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 CODB :SPNPAH1 JOB NUMBER :9101.495

Bcology and Bnvironment, 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-91-14389 MATRIX : SOLID
SAMPLE ID CLIENT! P27-S014AD

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EB-91-14390 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014B

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 :9101.495

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 : BB-91-14391 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014C

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 :9101.495

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-91-14392 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14393 MATRIX : SOLID
SMPLB ID CLIENT: P27-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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14394 MATRIX : SOLID
SAHPLB ID CLIENT: P27-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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14395 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S015D

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14396 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S016B

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 :9101.495

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-91-14397 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S016C

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 :9102.102

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
SAMPLE ID LAB : EE-91-20573 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017A

PARAMETER	RESULTS	Q	QNT. LIHIT
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 :9102.102

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-91-20574 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017B

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 :9102.102

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-91-20575 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017C

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 : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PRASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20576 MATRIX : SOLID
SAMPLE ID CLIENT: **P27-S017CD**

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 LIHIT

TEST CODE :SPNPAH1 JOB NUMBER :9102.102

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-91-20563 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018A

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-20564 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S0188

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 LIHIT

TEST CODE :SPNPAH1 JOB NUMBER :9102.102

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-91-20565 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018C

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PBASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-20566 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S018D

PARAMETER	RESULTS	Q	QNT. LIHIT
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 :9102.102

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-91-20567 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S019A

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 : 9102.102

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-91-20568 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S019B

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 :9102.102

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-91-20569 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S019C

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 :9102.102

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-91-20570 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S020A

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCB 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20571 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S020B

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 : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PAR - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20572 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S020C

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 : 9102.102

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 : HETHOD BLANK 1 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 : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-8000 NASP - PHASE I BATCH 2
RESULTS IN VET 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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCB 2
RESULTS IN WET 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 : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 4 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 : 9102.102

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 : METHOD BLANK 5 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 :9101.474

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 1 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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

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

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 CODB :SPNPAH1 JOB NUMBER r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT t UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PAH - LC UNITS : UG/KG
SAMPLE ID LAB r METHOD BLANK #1 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 :9101.495

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 : 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 :9101.507

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 : HETHOD BLANK #1 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 : 9101.507

Ecology and Environment, Inc.
Analytical Services Center

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

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

9102.102

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene	20576 MS	ND	50	17	34

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAHPLES

9101.474

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene	14263	ND	50	45	30

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.495

(ug)

Parameter	E & E Laboratory No. 91-14368 MS	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene		ND	50	49	98

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.495

(ug)

Parameter	E & E Laboratory No. 91-14378 MS	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene		ND	50	39	78

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.495

(ug)

Parameter	E & E Laboratory No. 91-14388 MS	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene		ND	50	40	80

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.507

(ug)

Parameter	E 6 E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene					
	Batch QC	ND	50	49	98
	Batch QC	ND	50	48	96

ND = NOT DETECTED

TEST CODE :SPNPHL1 JOB NUMBER :9101.507

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-91-14499 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001A

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 : 9101.507**

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET VEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : **EE-91-14500** MATRIX : SOLID
SAMPLE ID CLIENT: **P27-S001B**

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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14501 MATRIX : SOLID
SMPLB ID CLIENT: P27-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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14502 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001D

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 LIHIT

TEST CODB :SPNPHL1 JOB NUMBER :9101.495

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-91-14363 MATRIX : SOLID
SAMPLE ID CLIENT? P27-S002A

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14364 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002B

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE : SPNPHL1 JOB NUMBER : 9101.495

Ecology and Environment, Inc.
Analytical Services Canter

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BB-91-14365 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002C

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 : 9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14366 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002D

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 t9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BB-91-14367 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 : SPNPEL1 JOB NUMBER : 9101.495

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-91-14368 MATRIX : SOLID
SAMPLE ID CLIENT : P27-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

TBST CODE : SPNPHL1 JOB NUMBER 19101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TBST NMB : PNC PHENOL - LC UNITS : UG/KG
SMPLB ID LAB : BB-91-14369 MATRIX : SOLID
SMPLB ID CLIENT: P27-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 = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14370 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003D

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WBIGET
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14371 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004A

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 STATBD DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

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
SAHPLB ID LAB : BE-91-14372 MATRIX : SOLID
SAHPLB ID CLIENT: P27-S004B

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODB :SPNPHL1 JOB NUMBER :9101.495

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-91-14373 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 CODB :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WHGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14374 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004D

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE : SPNPHL1 **JOB NUMBER :9101.474**

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
SAHPLE ID **LAB** : **EE-91-14253** MATRIX : SOLID
SAHPLE ID CLIENT: **P27-S005A**

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 :9101.474

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-91-14254 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCB 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14255 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S005C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.474

Ecology 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 : EE-91-14256 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S005D

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAXE : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14257 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 : 9101.474

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-91-14258 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.474

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 : BE-91-14259 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S006C

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14260 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S006D

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : EE-91-14261 MATRIX : SOLID
SAHPLE ID CLIENT: P27-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 BELOW STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.474

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-91-14262 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 LIHIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.474

Bcology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BB-91-14263 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : 08-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14503 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008A

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 :9101.507

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-91-14504 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008B

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 NUHBER : 9101.507

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-91-14505 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE : SPNPHL1 JOB NUMBER : 9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14506 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008D

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 :9101.495

Ecology 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** : EE-91-14375 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 CODB :SPNPHL1 JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCB 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14376 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S009B

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TBST CODE :SPNPHL1 JOB NUMBER :9101.495

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-91-14377 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.495

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-91-14378 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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

TBST CODE :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14379 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010A

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14380 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010B

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14381 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PEBNOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14382 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010D

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	40000		2000

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

TBST CODB :SPNPHL1 JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14383 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011A

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODB :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SMPLB ID LAB : EE-91-14384 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011B

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIBNT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WBIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14385 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011BD

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 :9101.495

Ecology and Bnvironment, 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 : BE-91-14386 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011C

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODB :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TBST NAME : PNC PHBNOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14387 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011D

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	76000		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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCB 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14264 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :SPNPBL1 JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PEASE I BATCE 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14265 MATRIX : SOLID
SAMPLE ID CLIENT: **P27-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 : 9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14266 HATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :SPNPHL1 JOB NUMBER :9101.474

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
SAXPLE ID LAB : EE-91-14267 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S012D

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 : 9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14268 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013A

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14269 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013B

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAHE : PNC PHENOL - LC UNITS : UG/KG
SAHPLE ID LAB : BE-91-14270 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S013C

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 :9101.474

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-91-14271 MATRIX : SOLID
SMPLE ID CLIENT: P27-S013D

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 :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIBNT t UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14388 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014A

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EB-91-14389 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014AD

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 :9101.495

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 : BE-91-14390 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014B

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET VBIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BB-91-14391 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014C

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 : 9101.495

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-91-14392 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S015A

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 :9101.495

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-91-14393 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S015B

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER r9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-14394 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEBNOL - LC UNITS : UG/KG
SAMPLE ID LAB : EB-91-14395 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S015D

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TBST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : BE-91-14396 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S016B

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 :9101.495

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
SAMPLB ID LAB : BE-91-14397 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S016C

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 : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGET
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20573 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 LIHIT

TEST CODE :SPNPHL1 JOB NUMBER :9102.102

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-91-20574 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017B

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 : 9102.102

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-91-20575 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017C

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 :9102.102

Ecology and Environment, Inc.
Analytical Services.Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20576 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S017CD

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 :9102.102

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-91-20563 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018A

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 :9102.102

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-91-20564 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S0188

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 :9102.102

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 : EE-91-20565 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018C

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAUE : PNC PHENOL - LC UNITS : UG/KG
SAUPLE ID LAB : EE-91-20566 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018D

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20567 MATRIX : SOLID
SMPLE ID CLIENT: P27-S019A

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 :9102.102

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-91-20568 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S019B

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 :9102.102

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-91-20569 KATRIX : SOLID
SAMPLE ID CLIENT: P27-S019C

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 :9102.102

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-91-20570 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S020A

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : EE-91-20571 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S020B

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 : 9102.102

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
SAHPLE ID LAB : EE-91-20572 MATRIX : SOLID
SAHPLE ID CLIENT: **P27-S020C**

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

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

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE : SPNPHL1 JOB NUMBER : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 2 MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as 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 :9101.474

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 : HETHOD 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 STATED DETECTION LIMIT

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN YET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK #1 MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	ND		2000

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

TEST CODE :SPNPHL1 JOB NUMBER :9101.495

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 : HBTHOD 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 CODE : SPNPHL1 JOB NUMBER : 9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PHENOL - LC UNITS : UG/KG
SAMPLE ID LAB : METHOD BLANK 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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9102.102

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol					
	Blank Spike #1	ND	100	91	91
	Blank Spike #2	ND	100	a7	87

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.474

(ug)

Parameter	E & E Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol		ND	100	82	82

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.474

(ug)

Parameter	E 6 E Laboratory No. 91-Blank	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol		ND	500	444	89

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.49s

(ug)

Paranetar	E & E Laboratory No. 91-Blank #1	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol		ND	100	87	87

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.495

(ug)

Parameter	E & E Laboratory No. 91-Blank #2	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol		ND	100	114	114

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED SOIL SAMPLES

9101.507

(ug)

Parameter	E & E Laboratory No. 91- Blank	Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol			ND	200	190	95

ND = NOT DETECTED

TEST CODE :SPNP&P1 JOB NUMBER :9101.507

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-91-14499 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001A

PARAMETER	RESULTS	Q	QNT. LIMIT
Reptachlor	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 LIHIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.507

Bcology 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-91-14500 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	No		1000
Lindane	ND		1000
Aldrin	ND		1000
494 - DDT	ND		1000
Dieldrin	NO		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODE : SPNP&P1 JOB NUMBER : 9101.507

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-91-14501 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001C

PARAMETER	RESULTS	Q	QNT. LIMIT
Iieptachlor	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 : 9101.507

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-91-14502 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S001D

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 CODB :SPNP&P1 JOB NUMBER :9101.495

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-91-14363 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002A

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14364 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Canter

CLIENT : UH-8000 NASP - PHASB I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : BE-91-14365 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002C

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE : SPNP&P1 JOB NUMBER : 9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EB-91-14366 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S002D

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODB :SPNP&P1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASB I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : BE-91-14367 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003A

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 :9101.495

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 : BE-91-14368 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DUT	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 :9101.495

Bcology 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-91-14369 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003C

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 :9101.495

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-91-14370 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S003D

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 : 9101.495

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
SAHPLE ID LAB : EE-91-14371 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 BELOW STATED DETECTION LIMIT

TBST CODB :SPNP&P1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WBIGHT
TBST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : BE-91-14372 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004B

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 :9101.495

Bcology and Bnvironment, 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 : BE-91-14373 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004C

PARAMETER	RESULTS	Q	QNT. LIMIT
Haptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101,493

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PHASB I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14374 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S004D

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 CODB :SPNP&P1 JOB NUMBER :9101.474

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-91-14253 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S005A

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Bndrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN VET WEIGHT
TBST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14254 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S005B

PARAMETER	RESULTS	Q	QNT. LIMIT
Hiptachlor	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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : BB-91-14255 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S005C

PARAMETER	RBSULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Bndrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.474

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-91-14256 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S005D

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCE 2
RESULTS IN WET WEIGET
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : BE-91-14297 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S006A

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 :9101.474

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-91-14258 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S006B

PARAMETER	RESULTS	0	ONT. LIHIT
Hiptachlor	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 = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.474

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 : EE-91-14259 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S006C

PARAMETER	RESULTS	Q	QNT. LIXIT
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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RBSULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14260 MTRIX : SOLID
SAHPLE ID CLIENT: P27-S006D

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14261 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S007A

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dit ldrin	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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WBIGET
TEST NAHE : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14262 MATRIX : SOLID
SAHPLE ID CLIENT: P27-S007B

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14263 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S007C

PARAMETER	RESULTS	Q	QNT. LIMIT
Ecptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.507

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-91-14503 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008A

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.507

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-91-14504 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-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 :9101.507

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-91-14505 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008C

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 LIHIT

TEST CODE : SPNP&P1 JOB NUMBER : 9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PBST./PCB UNITS : UG/KG
SAMPLE ID LAB : BE-91-14506 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S008D

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TBST CODE :SPNP&P1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14375 MATRIX : SOLID
SAHPLB ID CLIENT: P27-S009A

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODE : SPNP&P1 JOB NUMBER : 9101.495

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-91-14376 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S009B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TBST CODE :SPNP&P1 JOB NUMBER :9101.495

Bcology and Bnvironment, 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 : BE-91-14377 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S009C

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Bndrln	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE : SPNP&P1 JOB NUMBER : 9101.495

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-91-14378 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S009D

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 :9101.495

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-91-14379 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010A

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

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-91-14380 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010B

PARAMETER	RESULTS	Q	QNT. LIMIT
Ileptachlor	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 : 9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14381 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010C

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODB :SPNP&P1 JOB NUMBER :9101.495

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 : EB-91-14382 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S010D

PARAMETER	RBSULTS	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 :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14383 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011A

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 LIHIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

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-91-14384 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011B

PARAMETER	RESULTS	Q	QNT. LIHIT
Reptachlor	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 :9101.495

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-91-14385 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011BD

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Bndrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

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 : BE-91-14386 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011C

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 :9101.495

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-91-14387 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S011D

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WBIGET
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14264 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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 = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.474

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-91-14265 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S012B

PARAMETER	RESULTS	Q	QNT. LIMIT
Hoptachlor	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 :9101.474

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
SAXPLE ID LAB : EE-91-14266 MATRIX : SOLID
SAXPLE ID CLIENT: P27-S012C

PARAMETER	RESULTS	Q	QNT. LIXIT
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 = COHHENT ND = NOT DETECTED
J = ESTIXATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIXIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.474

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 : RE-91-14267 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S012D

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 :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
RESULTS IN VET WBIGET
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14268 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013A

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14269 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013B

PARAMETER	RESULTS	Q	QNT. LIHIT
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 = COHHENT ND = NOT DETECTED
J = ESTIMATED VALUE B = *ALSO* PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIMIT

TEST CODE : SPNP&P1 JOB NUMBER : 9101.474

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14270 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013C

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.474

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-91-14271 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S013D

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

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-91-14388 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014A

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-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

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-91-14389 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014AD

PARAMETER	RESULTS	Q	QNT. LIXIT
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-ODE	ND		1000
Total PCBs	ND		5000

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

TBST CODE :SPNP&P1 JOB NUMBER :9101.495

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-91-14390 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014B

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 = COHHBNT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOV STATED DETECTION LIHIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

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-91-14391 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S014C

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TBST CODE : SPNP&P1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RBSULTS IN WET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14392 MATRIX : SOLID
SAMPLE ID CLIENT: **P27-S015A**

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 :9101.495

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-91-14393 MATRIX : SOLID
SAHPLB ID CLIENT: P27-S015B

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-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 LIXIT

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

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
SAHPLB ID LAB : EB-91-14394 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9101.495

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
SMPLB ID LAB : EE-91-14395 MATRIX : SOLID
SMPLB ID CLIENT: P27-S015D

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 CODB :SPNP&P1 JOB NUMBER :9101.495

Bcology 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 : BE-91-14396 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S016B

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Endrin	ND		1000
Chlordane	ND		1000
4,4-DDB	ND		1000
Total PCBs	ND		5000

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

TEST CODE : SPNP&P1 JOB NUMBER : 9101.495

Ecology and Bnvironment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN WET WEIGHT
TBST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-14397 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S016C

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		1000
Lindane	ND		1000
Aldrin	ND		1000
4,4 - DDT	ND		1000
Dieldrin	ND		1000
Bndrin	ND		1000
Chlordane	ND		1000
4,4-DDE	ND		1000
Total PCBs	ND		5000

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

TEST CODE :SPNP&P1 JOB NUMBER :9102.102

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-91-20573 MATRIX : SOLID
SAMPLE ID CLIENT: P27-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	ND		5000

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OUALIFIERS: 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 :9102.102

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-91-20574 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017B

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

TEST CODE :SPNP&P1 JOB NUMBER :9102.102

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-91-20575 HATRIX : SOLID
SAMPLE ID CLIENT: P27-S017C

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-DOE	ND		1000
Total PCBs	ND		5000

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

TEST CODE : SPNP&P1 JOB NUMBER : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-20576 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S017CD

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 :9102.102

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-91-20563 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018A

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 :9102.102

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-91-20564 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018B

PARAXETER	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 :9102.102

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-91-20565 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018C

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 LIHIT

TEST CODE :SPNP&P1 JOB NUMBER :9102.102

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-91-20566 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S018D

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 :9102.102

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 : EE-91-20567 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S019A

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** : 9102.102

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-91-20568. MATRIX : SOLID
SAMPLE ID CLIENT: **P27-S019B**

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
RESULTS IN VET WEIGHT
TEST NAME : PNC PEST./PCB UNITS : UG/KG
SAMPLE ID LAB : EE-91-20569 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S019C

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 LIHIT

TEST CODE :SPNP&P1 JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
RESULTS IN WET WEIGHT
TEST NME : PNC PEST./PCB UNITS : UG/KG
SMPLE ID LAB : EE-91-20570 MATRIX : SOLID
SAMPLE ID CLIENT: P27-S020A

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

TEST CODE :SPNP&P1 JOB NUMBER :9102.102

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
SAHPLE ID LAB : EE-91-20571. MATRIX : SOLID
SAMPLE ID CLIENT: P27-S020B

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 LIMIT

TEST CODE :SPNP&P1 JOB NUMBER :9102.102

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-91-20572 MATRIX : SOLID
SAMPLE ID CLIENT: P27-SO2OC

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 :9102.102

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 : 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 CODB : SPNP&P1 JOB NUMBER : 9101.495

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 :9101.507

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-ODE	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

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14363)

9101.495

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		(ug/kg)		
Heptachlor	ND	400	453	113
Lindane	ND	400	462	116
Aldrin	ND	400	496	124
4,4'-DDT	ND	1000	1142	114
Dieldrin	ND	1000	1189	119
Bndrin	ND	1000	1177	118
Chlordane	ND	- -	- -	NA
4,4'-DDE	ND	- -	- -	NA
PCB-1254	ND	5000	6201	124

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14373)

9101.495

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		(ug/kg)		
Heptachlor	ND	400	606	152
Lindane	ND	400	583	146
Aldrin	ND	400	636	159
4,4'-DDT	ND	1000	1497	150
Dieldrin	ND	1000	1518	152
Endrin	ND	1000	1515	152
Chlordane	ND	- -	- -	NA
4,4'-DDE	ND	- -	- -	NA
PCB-1254	ND	5000	7555	151

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14383)

9101.495

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		(ug/kg)		
Heptachlor	ND	400	473	118
Lindane	ND	400	500	125
Aldrin	ND	400	529	132
4,4'-DDT	ND	1000	1181	118
Dieldrin	ND	1000	1264	126
Endrin	ND	1000	1231	123
Chlordane	ND	- -	- -	NA
4,4'-DDE	ND	- -	- -	NA
PCB-1254	ND	5000	6522	130

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14393)

9101.495

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		(ug/kg)		
Heptachlor	ND	400	463	116
Lindane	ND	400	486	122
Aldrin	ND	400	915	129
4,4'-DDT	ND	1000	1192	115
Dieldrin	ND	1000	1233	123
Bndrin	ND	1000	1198	120
Chlordane	ND	- -	- -	NA
4,4'-DDE	ND	- -	- -	NA
PCB-1254	ND	5000	6303	126

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14254)

9101.474

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		(ug/kg)		
Heptachlor	ND	400	363	91
Lindane	ND	400	353	88
Aldrin	ND	400	402	101
4,4'-DDT	ND	1000	1038	104
Dieldrin	ND	1000	1026	103
Bndrin	ND	1000	1024	102
PCB-1254	ND	5000	5445	109

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 14264)

9101.474

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		(ug/kg)		
Heptachlor	ND	400	375	94
Lindane	ND	400	365	91
Aldrin	ND	400	410	102
4,4'-DDT	ND	1000	1046	105
Dieldrin	ND	1000	1036	104
Bndrin	ND	1000	1019	102
PCB-1254	ND	5000	5563	111

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF SOIL MATRIX SPIKE
(Sample # 20576)

9102.102

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
	(ug/kg)			
Heptachlor	ND	400	318	80
Lindane	ND	400	394	99
Aldrin	ND	400	316	79
4,4'-DDT	ND	1000	1042	104
Dieldrin	ND	1000	984	98
Endrin	ND	1000	1017	102
PCB-1254	ND	5000	4579	92

ND = NOT DETECTED

TEST CODE :SPH 1 JOB NUMBER :9101.741

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE 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 = COHMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIHIT
NA = NOT APPLICABLE

TEST CODE :SPH 1 JOB NUMBER :9101.741

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PH UNITS : S.U.
PARAHETER : 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 - PEASE 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 BELOV 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

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-91-16382 P27-S001A (14499)	7.8		NA
EE-91-16383 P27-S001B (14500)	7.8		NA
EE-91-16384 P27-S001C (14501)	7.8		NA
EE-91-16385 P27-S001D (14502)	7.9		NA
EE-91-16386 P27-S002A (14363)	7.9		NA
EE-91-16387 P27-S002B (14364)	5.7		NA
EE-91-16388 P27-S002C (14365)	7.2		NA
EE-91-16389 P27-S002D (14366)	7.6		NA
EE-91-16390 P27-S003A (14367)	8.0		NA
EE-91-16391 P27-S003B (14368)	8.0		NA
EE-91-16392 P27-S003C (14369)	7.6		NA
EE-91-16393 P27-S003D (14370)	7.7		NA
EE-91-16394 P27-S004A (14371)	4.6		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-91-16395 P27-S004B (14372)	4.3		NA
EE-91-16396 P27-S004C (14373)	4.4		NA
EE-91-16397 P27-S004D (14374)	6.4		NA
EE-91-16398 P27-S005A (14253)	8.5		NA
EE-91-16399 P27-S005B (14254)	8.5		NA
EE-91-16400 P27-S005C (14255)	8.7		NA
EE-91-16401 P27-S005D (14256)	8.5		NA
EE-91-16402 P27-S006A (14257)	8.2		NA
EE-91-16403 P27-S006B (14258)	8.7		NA
EE-91-16404 P27-S006C (14259)	8.6		NA
BE-91-16405 P27-S006D (14260)	8.3		NA
EE-91-16406 P27-S007A (14261)	8.0		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-91-16407 P27-S007B (14262)	8.4		NA
EE-91-16408 P27-S007C (14263)	8.5		NA
EE-91-16409 P27-S008A (14503)	6.9		NA
EE-91-16410 P27-S008B (14504)	6.8		NA
EE-91-16411 P27-S008C (14505)	6.7		NA
EE-91-16412 P27-S008D (14506)	7.2		NA
EE-91-16413 P27-S009A (14375)	7.7		NA
EE-91-16414 P27-S009B (14376)	5.6		NA
EE-91-16415 P27-S009C (14377)	5.4		NA
EE-91-16416 P27-S009D (14378)	7.8		NA
EE-91-16417 P27-S010A (14379)	7.3		NA
EE-91-16418 P27-S010B (14380)	7.6		NA
EE-91-16419 P27-S010C (14381)	5.9		NA

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

TEST CODE :SPH 1 JOB NUMBER :9101.741

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-16420 P27-S010D (14382)	7.7		NA
EE-91-16421 P27-S011A (14383)	7.5		NA
EE-91-16422 P27-S011B (14384)	8.0		NA
EE-91-16423 P27-S011BD(14385)	8.4		NA
EE-91-16424 P27-S011C (14386)	6.0		NA
EE-91-16425 P27-S011D (14387)	8.5		NA
EE-91-16426 P27-S012A (14264)	8.8		NA
EE-91-16427 P27-S012B (14265)	7.8		NA
EE-91-16428 P27-S012C (14266)	8.3		NA
EE-91-16429 P27-S012D (14267)	8.5		NA
EE-91-16430 P27-S013A (14268)	5.3		NA
EE-91-16431 P27-S013B (14269)	5.0		NA

QUALIFIERS: C = COMMENT NO = 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-91-16432 P27-S013C (14270)	6.6		NA
EE-91-16433 P27-S013D (14271)	7.8		NA
EE-91-16434 P27-S014A (14388)	8.0		NA
EE-91-16435 P27-S014AD(14389)	8.0		NA
EE-91-16436 P27-S014B (14390)	7.1		NA
EE-91-16437 P27-S014C (14391)	7.4		NA
EE-91-16438 P27-S015A (14392)	7.6		NA
EE-91-16439 P27-S015B (14393)	7.6		NA
EE-91-16440 P27-S015C (14394)	7.6		NA
EE-91-16441 P27-S015D (14395)	7.5		NA
EE-91-16442 P27-S016B (14396)	6.7		NA
EE-91-16443 P27-S016C (14597)	6.6		NA
EE-91-16444 P27-SD001 (14596)	7.9		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 : 9102.245

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-22002 P27-S018A (20563)	5.8		NA
EE-91-22003 P27-S018B (20564)	4.4		NA
EE-91-22004 P27-S018C (20565)	4.7		NA
EE-91-22005 P27-S018D (20566)	5.5		NA
EE-91-22006 P27-S019A (20567)	4.7		NA
EE-91-22007 P27-S019B (20568)	4.3		NA
EE-91-22008 P27-S019C (20569)	4.6		NA
EE-91-22009 P27-S020A (20570)	8.4		NA
EE-91-22010 P27-S020B (20571)	7.9		NA
EE-91-22011 P27-S020C (20572)	7.7		NA
EE-91-22012 P27-S017A (20573)	6.2		NA
EE-91-22013 P27-S017B (20574)	6.8		NA
EE-91-22014 P27-S017C (20575)	6.8		NA

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

TEST CODE :SPA 1 JOB NUMBER :9102.245

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-22015			
P27-S017CD (20576)	6.8		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

9102.245

Parameter	E 6 E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
pH (S.U.)	22015	6.8	6.8	0.60

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

9101.741

(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 FROH THE RAW DATA.

APPENDIX I

RADIOACTIVE SOIL SAMPLE ANALYTICAL RESULTS

Controls for Environmental Pollution, Inc.

1925 Rosina • P O.Box 5351 • Santa Fe, New Mexico 87502 • Telephone 505/982-9841

September 12, 1991

Amy Twitty
Ecology and Environment, Inc.
316 South Baylen St. #670
Pensacola, FL 32501

Dear Ms. Twitty:

Enclosed please find final results and the Inorganics Quality Assurance Data package for the following samples:

91-06-526 91-07-508

If you have any questions, or if you require any additional information, please do not hesitate to contact me.

Sincerely,

CONTROLS FOR ENVIRONMENTAL POLLUTION, INC.

Wade Cavin
Contract Manager

WC
ENC:

To CEP

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.: [illegible]
Project Name: [illegible]
Project Manager: [illegible]
Samplers: (Signatures) [illegible]
Field Team Leader: [illegible]

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	REMARKS
04A	6/22	0811	✓			[illegible]	[illegible]	1	✓						
04B		0817	✓				[illegible]	1	✓						
04C		[illegible]	✓				[illegible]	1	✓						
04A		0850	✓				[illegible]	1	✓						
04B		0855	✓				[illegible]	1	✓						
04C		[illegible]	✓				[illegible]	1	✓						
04D		[illegible]	✓				[illegible]	1	✓						
04A		[illegible]	✓				[illegible]	1	✓						
04B		[illegible]	✓				[illegible]	1	✓						
04C		[illegible]	✓				[illegible]	1	✓						
04D		[illegible]	✓				[illegible]	1	✓						
04AD		[illegible]	✓				[illegible]	1	✓						
04BD		[illegible]	✓				[illegible]	1	✓						
04A		[illegible]	✓				[illegible]	1	✓						

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[illegible]	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:	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)

Ship Via: Federal Express
BL/Airbill Number: 9631244954
Date: 6/24/91

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

234065

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.: [illegible]020
Project Name: NAC [illegible]
Project Manager: [illegible]
Samplers: (Signatures) [illegible]
Field Team Leader: [illegible]

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Ecology TCL	~~TCL~~	TCL VOCs	TCL PAHs	TCL Metals	TCL Inorganics	REMARKS
[illegible]	[illegible]	1420	V			[illegible]	[illegible]	1	V						
[illegible]		1441	V				[illegible]	1	V						
[illegible]		1451	V				[illegible]	1	V						
[illegible]		1500	V				[illegible]	4	V	V	V	V	V	X	[illegible] for lab #X[illegible]101
[illegible]		1507	V				[illegible]	1	V						
							[illegible]	1	V						[illegible] lab #11[illegible]
							[illegible]								

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[illegible]	[illegible]				
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: 9165[illegible]
Date: 6/24/91

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

234068

Recycled paper

U.S. EPA -CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: CEP Contract: _____

Lab Code: _____ CASE No.: _____ SAS No.: _____

SDG No.: P27S016A SITE 27 SOW No.: 788

EPA Sample No.	Lab Sample ID
B016	9107508-01

Were ICP interelement corrections applied? Yes/No NO

Were ICP background corrections applied? Yes/No -NO

If yes, were raw data generated before application of background corrections? Yes/No ___

Comments:

I certify that this data package is in compliance with the term8 and condition8 of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette ha8 been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Wade Cavin Name: Wade Cavin

Date: 9/12/91 Title: Contracts

Rev. 6/89

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B016

Lab Name: C.E.P. Contract: _____
Lab code: _____ Case No.: _____ SAS No.: _____
SDG No.: SITE 27 Lab Sample ID: 9107508-01
Date Received: 07/24/91
Matrix (soil/water): SOIL Level (low/med): LOW
% Solids: 78.4
Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3317.79			P
7440-36-0	Antimony	5.39			P
7440-38-2	Arsenic	0.82			F
7440-39-3	Barium	10.45			P
7440-41-7	Beryllium	0.07			P
7440-43-9	Cadmium	4.22			P
7440-70-2	Calcium	530.18			P
7440-47-3	Chromium	26.73			P
7440-48-4	Cobalt	0.66			P
7440-50-8	Copper	18.45			P
7439-89-6	Iron	2029.38			P
7439-92-1	Lead	120.07			P
7439-95-4	Magnesium	68.82			P
7439-96-5	Manganese	201.88			P
7439-97-6	Mercury	1.84			CV
7440-02-0	Nickel	2.84			P
7440-09-7	Potassium	45.65			P
7782-49-2	Selenium	0.10	U		F
7440-22-4	Silver	0.15			P
7440-23-5	Sodium	29.89			P
7440-28-0	Thallium	2.63			P
7440-62-2	Vanadium	3.51			P
7440-66-6	Zinc	326.11			P
	Cyanide				NR
7440-31-5	Tin				NR

Color Before: BROWN Clarity Before: OPAQUE Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts: NO

Comments:

FORM I - IN

U.S. EPA - CLP
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: C.E.P. Contract: _____
Lab Code: _____ Case No. : _____ SAS No.: _____
Initial Calibration Source: SDG No.:SITE 27
Continuing Calibration Source: FISHER

Concentration Units: ug/L

Analyte				Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	20,000	21671.0	108.4	20,000	21610.0	108.1			P
Antimony	6000.0	6102.0	101.7	16000.0	6101.0	101.7			P
Arsenic	60.0	54.2	90.3	60.0	53.5	89.2	61.6	102.7	F
Barium	20,000	18476.0	92.4	'20,000	19008.0	95.0			P
Beryllium	500.0	525.0	105.0	500.0	528.0	105.6			P
Cadmium	500.0	461.0	92.2	500.0	456.0	91.2	460.0	92.0	P
Calcium	500000	516,116	103.2	500000	526,801	105.4			P
Chromium	1000.0	1093.0	109.3	1000.0	1108.0	110.8	1097.0		P
Cobalt	5000.0	4740.0	94.8	5000.0	4789.0	95.8			P
Copper	2500.0	2606.0	104.2	2500.0	2619.0	104.8			P
Iron	10,000	10597.0	106.0	10,000	10619.0	106.2			P
Lead	500.0	536.0	107.2	500.0	521.0	104.2	502.0	100.4	P
Magnesium	500000	494,161	98.8	500000	493,048	98.6			P
Manganese	1500.0	1618.0	107.9	1500.0	1582.0	105.5			P
Mercury	1.5	1.5	97.3	1.0	0.9	90.0	0.9	90.0	CV
Nickel	4000.0	4031.0	100.8	4000.0	4032.0	100.8			P
Potassium	500000	511,570	102.3	500000	497,552	99.5			P
Selenium	60.0	58.3	97.2	30.0	29.9	99.7	28.0	93.3	F
Silver	1000.0	1097.0	109.7	1000.0	1084.0	108.4	1013.0	101.3	P
sodium	500000	475,484	95.1	500000	463,337	92.7			P
Thallium	1000.0	969.0	96.9	1000.0	979.0	97.9			P
Vanadium	5000.0	5110.0	102.2	5000.0	5151.0	103.0			P
Zinc	2000.0	2034.0	101.7	2000.0	1960.0	98.0			P
Cyanide									NR
Tin									NR

U.S. EPA - CLP
3
BLANKS

Lab Name: C.E.P. Contract: _____
Lab Code: _____ Case No.: _____ SAS No.: _____

Preparation Blank Matrix (soil/water): WATER SDG No : SITE 27

Preparation Blank Concentration Units (ug/L or mg/kg) : UG/L

ANALYTE	INITIAL CALIB. BLANK (ug/L)	C	CONTINUING CALIBRATION BLANK (ug/L) 1	C	2	C	3	C			M
Aluminum	0.0	U	0.0	U					50.000	U	P
Antimony	0.0		0.0						50.000	U	P
Arsenic	0.0		0.0		0.0				10.000	U	F
Barium	0.0	U	0.0						50.000	U	P
Beryllium	0.0		0.0						1.000	U	P
Cadmium	0.0	U	0.0	U	0.0	U	0.0	U	50.000	U	P
Calcium	0.0	U	0.0						100.000	U	P
Chromium	0.0	U	0.0	U	0.0	U	0.0	U	50.000	U	P
Cobalt	0.0		0.0						50.000	U	P
Copper	0.0	U	0.0	U					50.000	U	P
Iron	0.0	U	0.0	U					50.000	U	P
Lead	0.0	U	0.0		0.0	U	0.0	U	50.000	U	P
Magnesium	0.0	U	0.0						100.000	U	P
Manganese	0.0		0.0	U					50.000	U	P
Mercury	0.0		0.0		0.0		0.0		0.0002	U	CV
Nickel	0.0	U	0.0	U					50.000	U	P
Potassium	0.0		0.0						100.000	U	P
Selenium	0.0		0.0		0.0				10.000	U	F
Silver	0.0	U	0.0	U	0.0	U	0.0	U	50.000	U	P
sodium	0.0	U	0.0						100.000	U	P
Thallium	0.0		0.0						50.000	U	P
Vanadium	0.0		0.0						50.000	U	P
Zinc	0.0	U	0.0	U					50.000	U	P
Cyanide											NR
Tin											NR

FORM III - IN

U.S. EPA - CLP
5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

B016

Lab Name: C.E.P. Contract: _____
Lab Code: _____ Case No.: _____ SAS No.: _____
SDG No.: SITE 27 Matrix: SOIL Level (low/med): LOW
% Solids for Sample: 78.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit OR	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75-125	134.0304		130.0575		4.00	99.3	
Antimony	75-125	1.2990		0.2113		1.00	108.8	
Arsenic	75-125	1.6000		0.6400		1.00	96.0	
Barium	75-125	4.4501		0.4098		4.00	101.0	
Beryllium	75-125	0.1075		0.0027		0.10	104.8	
Boron								NR
Cadmium	75-125	0.4400		0.3453		0.10	94.7	P
Calcium	75-125	28.8011		20.7829		10.00	80.2	P
Chromium	75-125	0.9187		0.4868		0.40	107.5	P
Cobalt	75-125	1.0699		0.0260		1.00	104.4	P
Copper	75-125	1.2675		0.7231		0.50	108.9	P
Iron	75-125	81.7157		79.5515		2.00	108.2	P
Lead	75-125	2.0955		1.1349		1.00	96.1	P
Magnesium	75-125	12.1849		2.6978		10.00	94.9	P
Manganese	75-125	9.0193		7.9135		1.00	110.6	P
Mercury								CV
Nickel	75-125	1.2817		0.1114		1.00	117.0	P
Potassium	75-125	11.9915		1.7895		10.00	102.0	P
Selenium	75-125	0.8000		0.1000	U	1.00	80.0	F
Silver	75-125	0,1222		0.0143		0.10	107.9	P
Sodium	75-125	11.3586		1.1716		10.00	101.9	P
Thallium	75-125	4.1895		0.1029		4.00	102.2	P
Vanadium	75-125	1.1803		0.1377		1.00	105.1	P
Zinc	75-125	13.7510		12.7835		1.00	96.0	P
Cyanide								NR
Tin								

Comments:

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO.

B016

Lab Name: C.E.P. Contract: _____
Lab Code: _____ Case No. : _____ SAS No. : _____
SDG No.: SITE 27 Matrix: SOIL Level (low/med) : LOW
% Solids for Sample: 78.4 % Solids for Duplicate: 78.4

Concentration Units (ug/L or mg/kg dry weight) :MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate(D)	C	RPD	Q	M
Aluminum		2601.1500		2624.0570		0.9		P
Antimony		4.2250		4.2590		0.8		P
Arsenic								F
Barium		8.1960		8.2520		0.7		P
Beryllium		0.0540		0.0620		13.8		P
Cadmium		11.4370		11.5050		0.6		P
Calcium		415.6580		418.7930		0.8		P
Chromium		18.6230		18.6650		0.2		P
Cobalt		0.5190		0.6150		16.9		P
Copper		14.4620		14.5310		0.5		P
Iron		1591.0300		1619.5240		1.8		P
Lead		29.7110		29.9250		0.7		P
Magnesium		53.9560		54.3250		0.7		P
Manganese		158.2700		160.9980		1.7		P
Mercury		0.0257		0.0369		35.8		CV
Nickel		2.2270		2.1700		2.6		P
Potassium		35.7900		36.2800		1.4		P
Selenium		0.1000	U	0.1000	U			F
Silver		0.4230		0.4550		7.3		P
sodium		23.4320		23.4830		0.2		P
Thallium		2.0580		2.0640		0.3		P
Vanadium		2.7530		2.8100		2.0		P
Zinc		255.6700		259.5190		1.5		P
Cyanide								NR
Tin								NR

SEMI-VOLATILE DATA PACKAGE

QC SUMMARY

1) Surrogate Percent Recovery (Form II-SV)

2) MS/MSD Summary (Form III-SV)

3) Method Blank Summary (Form IV-SV)

4) GC/MS Tuning and Mass Calibration (Form V-SV)

5) Internal Standard Area Summary (Form VIII-SV)

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

P27B016

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample SO: 9106526-34

Sample wt/vol: 30 (g/mL) G Lab File ID: >U8008

Leu. 1: (low/med) LOW Date Received: --------

% Moisture: not dec.____ dec. ____ Date Extracted: --------

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/02/91

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(-2-Chloroethoxy)methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	350.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

P27B016

Lab Name :CEP Contract:-------

Lab Cod~:------- Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 9106526-34

Sample wt/vol: 30 (g/mL) G Lab File ID: >UB008

Lou1-: (1~~/m0d LOW Date Received: --------

% Moisture: not doc.____ doc. ____ Date Extracted:--------

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/02/91

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg		Q
99-09-2	3-Nitroaniline	1700.	U	
83-32-9	Acenaphthene	330.	U	
51-28-5	2,4-Dinitrophenol	1700.	U	
100-02-7	4-Nitrophenol	1700.	U	
132-64-9	Dibenzofuran	330.	U	
121-14-2	2,4-Dinitrotoluene	330.	U	
84-66-2	Diethylphthalate	330.	U	
7005-72-3	4-Chlorophenyl-phenylether	330.	U	
86-73-7	Fluorene	10.	U	X
100-01-6	4-Nitroaniline	1700.	U	
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U	
86-30-6	N-Nitrosodiphenylamine (1)	330.	U	
101-55-3	4-Bromophenyl-phenylether	330.	U	
118-74-1	Hexachlorobenzene	330.	U	
87-86-5	Pentachlorophenol	1700.	U	
85-01-8	Phenanthrene	330.	U	
120-12-7	Anthracene	330.	U	
84-74-2	Di-n-butylphthalate	10.	U	X
206-44-0	Fluoranthene	330.	U	
129-00-0	Pyrene	330.	U	
85-68-7	Butylbenzylphthalate	10.	U	X
91-94-1	3,3'-Dichlorobenzidine	670.	U	1
56-55-3	Benzo(a)anthracene	330.	U	
218-01-9	Chrysene	330.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	10.	U	X
117-84-0	Di-n-octyl_Phthalate	330.	U	
205-99-2	Benzo(b)fluoranthene	330.	U	
207-08-9	Benzo(k)fluoranthene	330.	U	
50-32-8	Benzo(a)pyrene	330.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U	
53-70-3	Dibenzo(a,h)anthracene	330.	U	
191-24-2	Benzo(g,h,i)perylene	330.	U	

(1) - Cannot bo separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS OATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P27B016

Lab Name: CEP Contract: -------

Lab Cod~: ------- Case No.: ----- S A No.: ----- SDC No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 9106526-34

Sample wt/vol: 30 (g/mL) G Lab File ID: >U8008

Level: (low/med) LOW Date Received: --------

% Moisture: not dec.____ doc. ____ Date Extracted: --------

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 8/02/91

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	5685461	1,1'-Bicyclopropyl (9CI)	3.64	2800.	J
2.	2597491	Cyclobutane, ethenyl- (9CI)	3.66	1200.	3
3.	497267	1,3-Dioxolane, 2-methyl- (8C	4.33	290.	3
4.	34	Benzene, methyl-	4.59	220.	BJ
5.	16015115	2H-Pyran, 3,4-dihydro-6-meth	4.67	78.	J
6.	589388	3-Hexanone (8CI9CI)	4.80	220.	83
7.	62338174	2-Hexanone, 4-hydroxy-3-prop	4.86	330.	BJ
8.	623370	3-Hexanol (8CI9CI)	4.94	81.	J
9.		Unknown	9.02	140.	J
10.		Unknown	5.37	120.	J
11.		Unknown	8.32	1800.	J
12.		Unknown	8.37	470.	J
13.	2511913	Cyclopropane, pentyl- (9CI)	9.63	160.	3
14.		Unknown	11.36	81.	J
15.	143077	Dodecanoic acid (9CI)	17.01	2700.	BJ
16.		Unknown	20.04	120.	BJ
17.		Unknown	23.18	160.	J
18.		Unknown	24.71	430.	J
19.	123795	Hexanedioic acid, dioctyl ea	26.28	370.	BJ
20.		Unknown	26.53	330.	J
21.					
22.					
23.					
24.					
23.					
26.					
27.					
29.					
29.					
30.					

SAMPLE DATA

1) TCL Results (Form I-SV)

2) TIC Results (Form I-SV-TIC)

3) RIC's/Quantitation Reports

4) Spectra for TCL and TIC

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SDC No.: ------

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	88LK1	75	85	44	70	64	84		0
02	P27B016	69	79	44	68	54	92		0
03	MATRIX SP	73	77	74	65	50	96		0
04	MSD	72	74	62	66	50	97		0
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
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28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphanyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophonol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to bo used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II SU-2

1/87 Rev.

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix Spike - EPA Sample No.: P27B016 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	6670.001	0.001	3710.00	55	126- 901
2-Chlorophenol	6670.00	0.001	3770.001	56	125-1021
1,4-Dichlorobenzene	3330.00	0.001	2000.00	60	28-104
N-Nitroso-di-n-prop.(1)	3330.001	0.001	2440.001	73	41-126
1,2,4-Trichlorobenzene	3330.00	0.001	2140.001	64	38-107
4-Chloro-3-methylphenol	6670.00	0.001	5370.001	e3	26-103
Acenaphthene	3330.00	0.001	2370.001	71	31-137
4-Nitrophonol	6670.001	0.001	7350.00	110	11-114
2,4-Dinitrotoluene	3330.00	0.001	2630.00	78	28- 891
Pentachlorophenol	6670.00	0.001	6410.00	96	17-109
Pyrene	3330.001	0.00	2170.00	65	35-142

COMPOUNO	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPO #	QC LIMITS RPO	QC LIMITS REC.
Phenol	6670.00	3550.001	53	3	33	126- 90
2-Chlorophenol	6,670.00	3660.001	54	3	50	125-1021
1,4-Dichlorobenzene	3330.001	1770.00	33	12	27	28-104
N-Nitroso-di-n-prop.(1)	3330.00	2090.001	62	16	38	141-1261
1,2,4-Trichlorobenzene	3330.00	1820.00	34	16	23	38-107
4-Chloro-3-methylphenol	6670.001	5200.001	78	6	33	26-103
Acenaphthene	3330.00	2020.001	60	16	19	131-1371
4-Nitrophonol	6670.00	7130.001	106	3	50	11-114
2,4-Dinitrotoluene	3330.00	2360.00	70	10	47	28- 89
Pentachlorophenol	6670.001	5630.00	e4	13	47	17-109
Pyrene	3330.00	1660.00	49	28	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPO values with an asterisk
* Values outside of qc limits

RPO: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS:

48

SEMIVOLATILE METHOD BLANK SUMMARY

Name: CEP Contract: -------

Code: ------- Case NO. I ----- SAS No.: ----- SDG No.: ------

Lab Fila ID: >U8007 Lab Sample ID: 88LK1

Oat. Extracted ----*--- Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 8/02/91 Time Analyzed: 17127

Matrix: (soil/water) SOIL Level: (low/med) LOW

Instrument ID: 70 2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	P27B016	9106526-34	>U8008	8/02/91
02	MATRIX SP	MATRIX SP	>U8009	8/02/91
03	MSD	MSD	>U8010	8/02/91
04				
05				
06				
07				
08				
09				
10				
11				
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COMMENTS:

FORM IV SV 1/87 Rev.

SAMPLE DATA

1) TCL Results (Form I-VOA)

2) TIC Compounds (Form I-VOA-TIC)

3) RIC's/Quantitation Reports

4) Spectra for TCL and TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

P27B016

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 9106526-34

Sample wt/vol: 5 (g/mL) G Lab File ID: >GB021

Level: (low/med) LOW Date Received: --------

% moisture: not dec.____ Date Analyzed: 7/10/91

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
74-87-3	Chloromethane	10.	U	
74-83-9	Bromomethane	10.	U	
75-01-4	Vinyl Chloride	10.	U	
75-00-3	Chloroethane	10.	U	
75-09-2	Methylene Chloride	3.	JB	
67-64-1	Acetone	10.	U	
75-15-0	Carbon Disulfide	5.	U	X
75-35-4	1,1-Dichloroethene	5.	U	X
75-34-3	1,1-Dichloroethane	5.	U	X
540-59-0	1,2-Dichloroethene (total)	5.	U	X
67-66-3	Chloroform	5.	U	X
107-02-2	1,2-Dichloroethane	5.	U	
78-93-3	2-Butanone	10.	U	
71-55-6	1,1,1-Trichloroethane	5.	U	X
56-23-5	Carbon Tetrachloride	5.	U	
108-05-4	Vinyl Acetate	10.	U	
75-27-4	Bromodichloromethane	5.	U	
78-87-5	1,2-Dichloropropane	5.	U	
10061-01-5	cis-1,3-Dichloropropene	5.	U	X
79-01-6	Trichloroethene	5.	U	
124-48-1	Dibromochloromethane	5.	U	
79-00-5	1,1,2-Trichloroethane	5.	U	
71-43-2	Benzene	5.	U	X
10061-02-6	trans-1,3-Dichloropropene	5.	U	
75-25-2	Bromoform	5.	U	
108-10-1	4-Methyl-2-pentanone	10.	U	
591-78-6	2-Hexanone	10.	U	
127-18-4	Tetrachloroethene	5.	U	
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	
108-88-3	Toluene	5.	U	X
108-90-7	Chlorobenzene	5.	U	
100-41-4	Ethylbenzene	5.	U	
100-42-5	Styrene	5.	U	
133-02-7	Xylene (total)	5.	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPR SAMPLE NO

P27B016

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 9106526-34

Sample wt/vol: 5 (g/mL) G Lab File ID: >GBU21

Level: (low/med) LOW Date Received: --------

% Moisture: not dec. ____ Date Analyzed: 7/10/91

Column: PACK Dilution Factor: 1.00000

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110543	Hexane (8C19CI)	20.35	9.	BJ
2.					
3.					
4.					
5.					
6.					
7.					
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9.					
10.					
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29.					
30.					

VOLATILE DATA PACKAGE

QC SUMMARY

1) Surrogate Percent Recovery (Form II-VOA)

2) MS/MSD Summary (Form III-VOA)

3) Method Blank Summary (Form IV-VOA)

4) GC/MS Tuning and Mass Calibration (Form V-VOA)

5) Internal Standard Area Summary (Form VIII-VOA)

SOIL VOLATILE SURROGATE RECOVERY

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SDG No.: ------

Leu. I: (low/medI LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	VSTD20	98	94	90		0
02	VSTD50	98	96	95		0
03	VSTD100	101	102	101		0
04	VSTD150	100	101	105		0
05	VSTD200	103	107	109		0
06	VBLK1	100	96	90		0
07	P27B016	105	92	90		0
08						
09						
10						
11						
12						
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27						
28						
29						
30						

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to bo used to flag recovery values

• Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-2 1087 Rev.

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SDG No.: ------

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	VST050	104	103	97		0
02	VBLK2	98	92	89		0
03	MS	104	100	93		0
04	MSD	98	94	91		0
05						
06						
07						
08						
09						
10						
11						
12						
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27						
28						
29						
30						

		QC LIMITS
S1 (TOL) =	Toluene-d8	(81-117)
S2 (BFB) =	Bromofluorobenzene	(74-121)
S3 (DCE) =	1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

• Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-2 1/87 Rev.

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ---- SDG No.: ------

Matrix Spike - EPA Sample No.: P27B016 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	51.00	0.00	73.00	143	59-172
Trichloroethene	51.00	0.00	56.00	111	62-137
Benzene	51.00	0.00	63.00	125	66-142
Toluene	51.00	0.00	57.00	112	59-139
Chlorobenzene	51.00	0.00	57.00	113	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	51.00	71.00	141	1	22	59-172
Trichloroethene	51.00	54.00	106	4	24	62-137
Benzene	51.00	61.00	120	4	21	66-142
Toluene	51.00	53.00	105	6	21	59-139
Chlorobenzene	51.00	54.00	107	5	21	60-133

Column to bo used to flag recovery and RPD values with an asterisk

• Values outside of qc limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outride limits

COMMENTS:

4H

VOLATILE METHOD BLANK SUMMARY

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SDG No.: ------

Lab File ID: >GB025 Lab Sample ID: VBLK2

Date Analyzed: 7/12/91 Time Analyzed: 10:59

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: 96 1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSTD50	VSTD50	>GB024	9:35
02	MS	MS	>GB027	14:10
03	MSD	MSD	>GB028	15:07
04				
05				
06				
07				
08				
09				
10				
11				
12				
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19				
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22				
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24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: CEP Contract: -------

Lab Code: ------- Case No.: ----- SAS No.: ----- SOG No.: ------

Lab File ID: >GB020 Lab Sample ID: VBLK1

Date Analyzed: 7/10/91 Time Analyzed: 17:15

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: 96 1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSTD20	VSTD20	>GB013	9:53
02	VSTD50	VSTD50	>GB016	13:24
03	VSTD100	VSTD100	>GB017	14:21
04	VSTD150	VSTD150	>GB018	15:21
05	VSTD200	VSTD200	>GB019	16:18
06	P27B016	9106526-34	>GB021	18:12
07				
08				
a9				
10				
11				
12				
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5U				

COMMENTS:

FORM IV VOA 1/87 Rev.

APPENDIX J

GROUNDWATER RADIOCHEMICAL RESULTS

fed-ex
9659244943

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

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

CHAIN-OF-CUSTODY RECORD

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

	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 (water only)	pH (water only)				REMARKS
P275	W010	6/24	1125		X		low (water) (soil)	Site 27, TW010	1	X	X	X				
P275	009A		1025	X				B009	1	X						water pcly-
P275	009B		1032	X				B009	1	X						lot #1092021
P275	009C		1043	X				B009	1	X						
P275	009D		1053	X				B009	1	X						soil pcly's
P275	004A		1520	X				B004	1	X						lot #1092021 for B002
P275	004B		1524	X				B004	1	X						B003
P275	004C		1533	X				B004	1	X						B004
P275	004D		1545	X				B004	1	X						lot #1126071 for B009
P275	003A		1416	X				B003	1	X						
P275	003B		1423	X				B003	1	X						*water sample preserved
P275	003C		1430	X				B003	1	X						with HNO_3
P275	003D		1440	X				B003	1	X						
P275	002A		1138	X				B002	1	X						

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[illegible]	6/24/91 1100				
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) [illegible] 6/25/91

Ship Via: Fed X
BL/Airbill Number: 9659244943
Date: 6/24/91

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

234055

fed ex

ecology and environment, inc.

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

CHAIN-OF-CUSTODY RECORD

Project No.: 116020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Sampleman Signature(s): [illegible]
Field Team Leader: [illegible]

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Lead	Calcium					REMARKS
FS002B	6/24	1145	X			low	Site 21, FX002	1	X						
FS002C	↓	1151	X			↓	↓ ↓	1	X						
FS002D	↓	1200	X			↓	↓ ↓	1	X						

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[illegible]	6/24/91 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) L. Hernigl 6/25/91

Ship Via: Fed X
BL/Airbill Number: 9659244943
Date: 6/24/91

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

234055

fed ex 0778221323

TO CEP

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

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 1 of 1

Project No.: W8000
Project Name: NAS Pensacola
Project Manager: John Barksdale
Samplers: (Signature)
Field Team Leader: Jeff Lunceford

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Iodium 226	Gross Alpha				REMARKS
P276 W003	6/28	1445		X		low	Site 27, TW003	1	X	X				Literally Lot# 1092021
P276 W008	6/28	1230		X		low	TW008	1	X	X				QC# 10230C
P276 W002	6/28	0933		X		low	TW002	1	X	X				
P276 W002D	6/28	0933		X		low	TW002	1	X	X				HNO3 Mallinckrodt Lot# 6623KCC
P276 W054	6/28	1145		X		low	Site 27 W054	1	X	X				
P276 W007	6/27	1230		X		low	Preservative Blank	1	X	X				
P276 W007	6/27	1615		X		low	Rinsate Blank	1	X	X				

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
	6/28/91 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)

Ship Via: Fed X
BL/Airbill Number: ~~0776546315~~ 6/28/91
Date: 6/28/91

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

234055

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CHAIN-OF-CUSTODY RECORD

Project No.: 118020
Project Name: NAS Tonawanda
Project Manager: John Forksdale
Samplers: (Signatures) [illegible]
Field Team Leader: [illegible]

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	GRAB	AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	TCL 226						REMARKS
12750 1CA	8/26	1521	X			low	SK 27 1018	1	X						
12750 1B		1542	X				F018	1	X						
12750 1C		1555	X				F018	1	X						
12750 1D		1601	X				F018	1	X						
12750 1A		1653	X				F019	1	X						
12750 1B		1003	X				F019	1	X						
12750 1C		1007	X				F019	1	X						
12750 2A	8/27	1113	X				1020	1	X						
12750 2B		1131	X				F020	1	X						
12750 2C		1146	X				F020	1	X						
12750 1A		1451	X				F017	1	X						
12750 1B		1514	X				F017	1	X						
12750 1C		1536	X				F017	1	X						
12750 1D		1536	X				F017	1	X						

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[illegible]	8/28 1100				
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: FED-X
BL/Airbill Number: 2833743683
Date: 8-28-91

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

234063

14 samples

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

CHAIN-OF-CUSTODY RECORD

Project No.: L1G020
Project Name: NAS Pensacola
Project Manager: John Parksdale
Samplers: (Signature) Andy Twitty
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	EC 226	Gross alpha					REMARKS
P2K TW017	8/27	1645		X		low (water)	SIC 27 TW017	1	X	X					
P2K TW070	8/27	1645		X		low (water)	" "	1	X	X					

Relinquished By: (Signature) Andy Twitty — Date/Time: 8/28 1700 — 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 By: (Signature)
Relinquished By: (Signature) — Date/Time: — Received By: (Signature)
Relinquished By: (Signature) — Date/Time: — Received For Laboratory By: (Signature)

Ship Via: Fed-X
BL/Airbill Number: 7833743583
Date: 8-28-91

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

234065

2 samples

Controir for Environmental Pollution, Inc.
P.OBOX 5351 o Sanca Fe, New Mexico 8750
IN STATE 505/982 98
OUT OF STATE 800/545-2188 0 FAX- 505-982-92 4

Controls for Environmental
Pollution, Inc
P.O. Box 5351
Santa Fe, NM 87502
Attn:
Phone: (505) 982-9841/(800) 549-2188

SEPT 3 0 91

Ecology and Environment, Inc
316 South Baylen St. #670
Pensacola, FL 32903

Attn: Amy Twitty
Invoice Number:

Order # 91-07-005
Date: 09/19/91 15:46
Work ID: Water (NR)
Date Received: 07/01/91
Date Completed: 08/08/91

SAMPLE IDENTIFICATION

Sample Number	Sample Description	
01	P27GW003	Site 27, TW003
03	P27W002	Site 27, GM2
05	P27W054	Site 27, GM54
07	P27WRB07	Rinsate Blank
02	P27GW008	Site 27, TW008
04	P27W002D	Site 27, GM2
06	P27WFB07	Field Blk

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

Controls for Environmental [illegible] tion, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico [illegible] 502 OUT OF STATE 800/545-2188 • FAX · 505-982-[illegible]289

TEST RESULTS BY SAMPLE

Sample: 01A P27GW003 Site 27, TW003 Collected 06/28/91 14:45

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	4+/-3	2	pCi/liter		
Radium-226	<1	3 6	pCi/liter		

Sample: 02A P27GW008 Site 27, TW008 Collected: 06/28/91 12:30

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	4+/-3	2	pCi/liter		
Radium-226	<1	0.6	pCi/liter		

Sample: 03A P27W002 Site 27, GM2 Collected 06/28/91 09:33

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	4+/-2	2	pCi/liter		
Radium-226	<1	0.6	pCi/liter		

Sample: 04G P27W002D Site 27, GM2 Collected 06/28/91 09:33

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	[illegible]	2	pCi/liter		
Radium-226	<1	0.6	pCi/liter		

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-9[illegible]9

Sample: 05A P27W054 Site 27, GM54 Collected: 06/27/91 11:45

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	<2	2	pCi/liter		
Radium-226	<1	0.6	pCi/liter		

Sample: 06A P27WFB07 Field Blk Collected: 06/27/91 12:30

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	<2	2	pCi/liter		
Radium-226	<1	0.6	pCi/liter		

Sample: 07A P27WRB07 Rinsate Blank Collected 06/27/91 16:15

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	<2	2	pCi/liter		
Radium-226	<1	0.6	pCi/liter		

Controls for Environmental Pollution, Inc.
P.O.BOX 5351 • Santa Fe, New Mexico 87502
IN STATE 505/982-[illegible]41
OUT OF STATE 800/545-2188 • FAX - 505-982-9289

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

Received: 06/25/91

Results by Sample

SAMPLE ID P27GW010 Site 27 TW010 FRACTION 07A TEST CODE RA2261 NAME Radium-226

Date & Time Collected 06/24/91 11:25:00 Category WATER

Type of Analysis	Detection Limit pCi/L	RESULT
Radium-226	0.6	<0.6

All results reported in:

UNITS pCi/liter

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502
IN STATE 505/982-9841
OUT OF STATE 800/545-2188 • FAX - 505-982-9289

Controls for Environmental
Pollution, Inc.
P.O. Box 3351
Santa Fe, NM 87302
Attn:
Phone: (505) 982-9841/(800) 545-2188

RECEIVED
AUG 06 91

Ecology and Environment, fnc.
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

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-9289
N STATE 505 982-9284

TEST RESULTS BY SAMPLE

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

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

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 IN STATE 505/982-9841 OUT OF STATE 800/545-2188 • FAX - 505-982-9289

RECEIVED SEP 13 91

Controls for Environmental
Pollution, Inc.
P.O. Box 3331
Santa Fe, NM 87302
Attn:
Phone: (505) 982-9841/(800) 545-2188

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

Attn: Amy Tritty
Invoice Number:

Order #: 91-08-699
Date: 09/10/91 10:02
Work ID: Water (NR)
Date Received: 08/29/91
Date Completed: 09/10/91

* High statistics due to large amount of solids.

SAMPLE IDENTIFICATSON

Sample Number	Sample Description	Sample Number	Sample Description
01	P27GW017 SITE 27, TW017	02	P27GW017D SITE 27, TW017

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
Approved By

Controls for Environmental Pollution, Inc.
P.O. BOX 5351 • Santa Fe, New Mexico 87502 OUT OF STATE 800/545-2188 • FAX - 505-982-9289
IN STATE 505/982-9[illegible]

TEST RESULTS BY SAMPLE

Sample: 01A P27GW017 SITE 27, TW017 Collected: 08/27/91 16:45

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	<2	a	pCi/liter		
Radium-226	<0.6	0.4	pCi/liter		

Sample: 02A P27GW017D SITE 27, TW017 Collected: 08/27/91 16:45

Test Description	Result	D.L.	Units	Analyzed	By
Gross Alpha	3+/-2*	a	pCi/liter		
Radium-226	2.2+/-1.0	0.6	pCi/liter		

APPENDIX K

TEMPORARY MONITORING WELL GROUNDWATER SAMPLING ANALYTICAL SCREENING RESULTS

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn

DATE: July 10, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.495

CC: Lab File

Attached is the laboratory report of the analysis conducted on thirty-six samples received at the Analytical Services Center on June 25, 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.

Sample #14398 was not preserved to the correct pH (<2). Additional acid (H_2SO_4) was added to bring the pH down to the correct level.

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, with such charges accruing until destruction of the samples is authorized by the client.

GH/kr
Enclosure

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn Gary Hahn/kr

DATE: July 12, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.507

CC: Lab File

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

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

GH/kr
Enclosure

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn

DATE: July 16, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9101.565

CC: Lab File

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on June 29, 1991. Analysis was performed according to the screening procedures set forth in "Generic Quality Assurance Project Plan, Contamination Assessments and Remedial Activities, Naval Air Station Pensacola, Pensacola, Florida," July 1990.

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

GH/kr
Enclosure

MEMORANDUM

TO: John Barksdale

FROM: Gary Hahn

DATE: September 11, 1991

SUBJECT: UH-8000 Pensacola Report

RE: 9102.102

CC: Lab File

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

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

GH/tms
Enclosure

Job# 9101 '98
Sample Range 14363 → 14398

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

(JH for water)

1 2

CHAIN-OF-CUSTODY RECORD

Project No.: UH6020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Sampling Manager(s): [illegible]
Field Team Leader: Acly Tuttly

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 TPRH	Screening BTEX	Screening PAHs	Screening Pesticides	Screening Metals	REMARKS
W010	6/24	1125		X		low (water)	Site 27, TW010	5	X	X	X	X	X	X	Water sample:
S009A		1025	X			(soil)	B009	3	X	X	X	X	X	X	metals preserved with HNO_3
S009B		1032	X				B009	3	X	X	X	X	X	X	TPRH preserved with H_2SO_4
S009C		1043	X				B009	3	X	X	X	X	X	X	
S009D		1053	X				B009	3	X	X	X	X	X	X	lot # for poly is #1092021
S004A		1520	X				B004	3	X	X	X	X	X	X	
S004B		1524	X				B004	3	X	X	X	X	X	X	
S004C		1533	X				B004	3	X	X	X	X	X	X	Soil samples: X0331013
S004D		1545	X				B004	3	X	X	X	X	X	X	8oz jars lot # ~~123033~~
S003A		1416	X				B003	3	X	X	X	X	X	X	B009, B002, B003 A, B, C
S003B		1423	X				B003	3	X	X	X	X	X	X	lot # 1093011 B003D, B004
S003C		1430	X				B003	3	X	X	X	X	X	X	VOAs lot # B009, B003, B002, B004
S003D		1440	X				B003	3	X	X	X	X	X	X	1L polys lot# 1120071 B009
S002A		1138	X				B002	3	X	X	X	X	X	X	lot # 1092021 B002, B003, B004

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
[signature]	6/24/91 1600	Fed Ex			
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)
Relinquished By: (Signature)	Date/Time: ~930	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)
Fed Ex	6-25-91	[signature]			

Ship Via: Fed-X
BL/Airbill Number: 0776546105
Date: 6/24/91

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

234065

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CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Project No.: UH6020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Sampler: [illegible]
Field Team Leader: Anu 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 PAHs	screening Pesticides	screening PCBs	screening metals	REMARKS
75 002B	6/24	1145	X			low	Site 27, B002	3	X	X	X	X	X	X	
75 002C	↓	1151	X			↓	B002	3	X	X	X	X	X	X	
75 002D	↓	1200	X			↓	B002	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
[illegible]	6/24/91 1000	Fed Ex				Fed-X
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
						BL/Airbill Number: 0716546105
Relinquished By: (Signature)	Date/Time 0930	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By: (Signature)	Date: 6/24/91
Fed Ex	6-25-91	[illegible]				

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

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Analyses per Site QAPP
See Jack Miller

CHAIN-OF-CUSTODY RECORD

Project No.: WH0020
Project Name: NAS Pensacola
Project Manager: John Parkscale
Samplers (Signatures): [signatures]
Field Team Leader: Jeff Lunceford

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening TPH	Screening VOCs	Screening Phenols	Screening Pesticides	Screening PCBs	REMARKS
2KW0036	6/28			X		GW	Site 27, TW003	5	X	X	X	X	X	
2KW0008	6/28			X		GW	" TW008	5	X	X	X	X	X	

Lot # / QC #
VOA 1123033/10353C
literally 1092021/10230C
Liter Amber 1038022/1092C
½ gall Amber 1094022/12278C

Preservation
HCL Mallinckrodt Lot # 5587REGP — VOA
HNO_3 " 6623REGG — Metals } pH<2
H_2SO_4 " 6843REGBG — TRPH

All samples packaged in ICE @ 4°C

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)
[signature]					
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	6-29-91/1000	[signature]			

Ship Via: [signature]
BL/Airbill Number: 176546330
Date: 6/28/91

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

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: U18020
Project Name: Group 6 Phase 1 investigation
Project Manager: John Barksdale
Sampler: (Signature)
Field Team Leader: A. Twitty

STATION NUMBER	DATE 1991	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE INFORMATION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening metals	TRPHs	PNAs, Phenols, Pest + PCBs	Cyanide + sulfide		REMARKS
GW015	6/25			X		LOW	TW015	5	X	X	X	X	X		

Relinquished By: (Signature) 1811 — Date/Time: 1810 6/25/91 — Received By: (Signature) Fed Ex
Relinquished By: (Signature) — Date/Time: — Received By: (Signature)
Relinquished By: (Signature) Fed Ex — Date/Time: 0830 6-26-91 — Received For Laboratory By: (Signature)
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)

Ship Via: Fed Ex
BL/Airbill Number: 0776546131
Date: 6/25/91

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

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CHAIN-OF-CUSTODY RECORD

Project No.: LH8020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Sampler: (Signature) Anu Twith
Field Team Leader: Anu Twith

STATION NUMBER	DATE	TIME	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE TYPE AIR	SAMPLE DESCRIPTION / EXPECTED COMPOUNDS (Concentration)*	STATION LOCATION	NUMBER OF CONTAINERS	Screening VOCs	Screening Metals	Screening TEPH	Screening PCB, Pesticides, Phenols	REMARKS
16W017	8/27	1645		X		GW	Site 27, TW017	5					lot #s
16W017D	8/27	1645		X		GW	Site 27, TW017	5					1/2g ambers 1065061
													1/2gr ambers 1057051
													poly 17D 1150022
													17 1092021
													VOAS 1123033
									Pres. with HCl	Pres with HNO_3	Pres with H_2SO_4		

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	Ship Via
Anu Twith	8/27 1900	FedEx				Fed-X
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)	
Relinquished By: (Signature) FedEx	Date/Time: 0930 8-28-91	Received For Laboratory By (Signature)	Relinquished By (Signature)	Date/Time	Received For Laboratory By (Signature)	BL/Airbill Number: Date: 8-27-91

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

234066

* Temp VOA in separate bagge
VOA TEMP. at 4°C upon receipt at lab. 8/28/91 VLS 10:25 am

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
20561.01	P27-GW017	WPNPRG1	08/27/91		08/29/91
20561.03	P27-GW017	WPNP&P1	08/27/91		08/31/91
		WPNPAH1	08/27/91		09/04/91
		WPNPHL1	08/27/91		09/06/91
20561.04	P27-GW017	WPNTPH1	08/27/91		09/03/91
20561.05	P27-GW017	WPNMET1	08/27/91		09/06/91
20562.01	P27-GW017D	WPNPRG1	08/27/91		08/29/91
20562.03	P27-GW017D	WPNP&P1	08/27/91		08/31/91
		WPNPAH1	08/27/91		09/04/91
		WPNPHL1	08/27/91		09/06/91
20562.04	P27-GW017D	WPNTPH1	08/27/91		09/03/91
20562.05	P27-GW017D	WPNMET1	08/27/91		09/06/91
20563.01	P27-S018A	SPNPRGl	08/26/91		08/29/91
20563.02	P27-S018A	SPNTPH1	08/26/91		08/29/91
20563.03	P27-S018A	SPNMETl	08/26/91		09/06/91
		SPNPCP1	08/26/91		08/30/91
		SPNPAHl	08/26/91		09/04/91
		SPNPHL1	08/26/91		09/05/91
20564.01	P27-S018B	SPNPRGl	08/26/91		08/29/91
20564.02	P27-S018B	SPNTPHl	08/26/91		08/29/91
20564.03	P27-S018B	SPNMETl	08/26/91		09/06/91
		SPNP&P1	08/26/91		08/30/91
		SPNPAHl	08/26/91		09/04/91
		SPNPHLl	08/26/91		09/05/91
20565.01	P27-S018C	SPNPRGl	08/26/91		08/29/91
20565.02	P27-S018C	SPNTPHl	08/26/91		08/29/91
20565.03	P27-S018C	SPNMET1	08/26/91		09/06/91
		SPNP&P1	08/26/91		08/30/91
		SPNPAH1	08/26/91		09/04/91
		SPNPHLl	08/26/91		09/05/91
20566.01	P27-S018D	SPNPRGl	08/26/91		08/29/91
20566.02	P27-S018D	SPNTPHl	08/26/91		08/29/91
20566.03	P27-S018D	SPNMETl	08/26/91		09/06/91
		SPNP&P1	08/26/91		08/30/91
		SPNPAHl	08/26/91		09/04/91
		SPNPHLl	08/26/91		09/05/91
20567.01	P27-S019A	SPNPRGl	08/26/91		08/29/91
20567.02	P27-S019A	SPNTPHl	08/26/91		08/29/91
20567.03	P27-S019A	SPNMET1	08/26/91		09/06/91
		SPNP&P1	08/26/91		08/31/91
		SPNPAH1	08/26/91		09/04/91
		SPNPHL1	08/26/91		09/06/91
20568.01	P27-S019B	SPNPRGl	08/26/91		08/29/91
20568.02	P27-S019B	SPNTPHl	08/26/91		08/29/91
20568.03	P27-S019B	SPNMETl	08/26/91		09/06/91
		SPNP&P1	08/26/91		08/31/91
		SPNPAHl	08/26/91		09/05/91

JOB NUMBER : 9101.507

Ecology and Environment, fnc.

SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14499.01	P27-S001A	SPNPRGl	06/25/91		06/28/91
14499.02	P27-S001A	SPNTPEl	06/25/91		06/28/91
14499.03	P27-S001A	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAEl	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14500.01	P27-S001B	SPNPRGl	06/25/91		06/29/91
14500.02	P27-S001B	SPNTPEl	06/25/91		06/28/91
14500.03	P27-S001B	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAEl	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14501.01	P27-S001C	SPNPRGl	06/25/91		06/29/91
14501.02	P27-S001C	SPNTPEl	06/25/91		06/28/91
14501.03	P27-S001C	SPNnETl	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14502.01	P27-S001D	SPNPRG1	06/25/91		06/29/91
14502.02	P27-S001D	SPNTPH1	06/25/91		06/28/91
14502.03	P27-S001D	SPNnETl	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAEl	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14503.01	P27-S008A	SPNPRGl	06/25/91		06/29/91
14503.02	P27-S008A	SPNTPH1	06/25/91		06/28/91
14503.03	P27-S008A	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAEl	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14504.01	P27-S008B	SPNPRGl	06/25/91		06/29/91
14504.02	P27-S008B	SPNTPH1	06/25/91		06/28/91
14504.03	P27-S008B	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAH1	06/25/91		07/08/91
		SPNPHL1	06/25/91		07/04/91
14505.01	P27-S008C	SPNPRGl	06/25/91		06/29/91
14505.02	P27-S008C	SPNTPEl	06/25/91		06/28/91
14505.03	P27-S008C	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAEl	06/25/91		07/08/91
		SPNPHLl	06/25/91		07/04/91
14506.01	P27-S008D	SPNPRGl	06/25/91		06/29/91
14506.02	P27-S008D	SPNTPHl	06/25/91		06/28/91
14506.03	P27-S008D	SPNMET1	06/25/91		06/28/91
		SPNP&P1	06/25/91		07/02/91
		SPNPAEl	06/25/91		07/08/91

JOB NUMBER : 9101.507

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
14506.03	P27-S008D	SPNPHL1	06/25/91		07/04/91
14507.01	P27-GW015	WPNPRG1	06/25/91		06/28/91
14507.03	P27-GW015	WPNP&P1	06/25/91		07/04/91
		WPNPAH1	06/25/91		06/29/91
		WPNPHL1	06/25/91		06/29/91
14507.04	P27-GW015	WPNTPH1	06/25/91		06/27/91
14507.05	P27-GW015	WPNMET1	06/25/91		06/28/91

JOB NUMBER : 9101.495

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATB SAMPLED	DATB EXTRACTED	DATE ANALYZED
14394.03	P27-S015C	SPNPbPl	06/22/91		06/29/91
		SPNPAH1	06/22/91		07/02/91
		SPNPHL1	06/22/91		07/02/91
14395.01	P27-S015D	SPNPRG1	06/22/91		06/28/91
14395.02	P27-S015D	SPNTPH1	06/22/91		06/27/91
14395.03	P27-S015D	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAH1	06/22/91		07/02/91
		SPNPHLl	06/22/91		07/03/91
14396.01	P27-S016B	SPNPRG1	06/22/91		06/28/91
14396.02	P27-S016B	SPNTPH1	06/22/91		06/27/91
14396.03	P27-S016B	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAH1	06/22/91		07/02/91
		SPNPHLl	06/22/91		07/03/91
14397.01	P27-S016C	SPNPRG1	06/22/91		06/28/91
14397.02	P27-S016C	SPNTPH1	06/22/91		06/27/91
14397.03	P27-S016C	SPNMET1	06/22/91		06/27/91
		SPNP&P1	06/22/91		06/29/91
		SPNPAR1	06/22/91		07/02/91
		SPNPHLl	06/22/91		07/03/91
14398.01	P27-GW010	WPNPRG1	06/24/91		06/28/91
14398.03	P27-GW010	WPNP&P1	06/24/91		07/03/91
		WPNPAH1	06/24/91		06/29/91
		WPNPHL1	06/24/91		06/29/91
14398.04	P27-GW010	WPNTPH1	06/24/91		06/26/91
14398.05	P27-GW010	WPNMET1	06/24/91		06/27/91

JOB NUMBER : 9101.565

Ecology and Environment, Inc.
SAMPLE TRACKING REPORT

LAB SAMPLE ID	CLIENT SAMPLE ID	TEST CODE	DATE SMPLED	DATE EXTRACTED	DATE ANALYZED
14883.01	P27-GW003	WPNPRG1	06/28/91		07/06/91
14883.03	P27-GW003	WPNP&P1	06/28/91		07/04/91
		WPNPAH1	06/28/91		07/11/91
		WPNPHL1	06/28/91		07/10/91
14883.04	P27-GW003	WPNTPH1	06/28/91		07/05/91
14883.05	P27-GW003	WPNMET1	06/28/91		07/02/91
14884.01	P27-GW008	WPNPRGl	06/28/91		07/06/91
14884.03	P27-GW008	WPNP&P1	06/28/91		07/04/91
		WPNPAH1	06/28/91		07/11/91
		WPNPHL1	06/28/91		07/10/91
14884.04	P27-GW008	WPNTPH1	06/28/91		07/05/91
14884.05	P27-GW008	WPNMET1	06/28/91		07/02/91

JOB NUMBER :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
SAMPLE ID LAB :EE-91-14883 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW003

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		60	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

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

JOB NUMBER :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14884 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW008

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		60	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

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

JOB NUMBER :9101.495

Bcology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
SAMPLE ID LAB :EE-91-14398 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW010

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	110		60	UG/L
Chromium	ND		10	UG/L
Zinc	38		20	UG/L
Lead	80		40	UG/L
Cadmium	8.4		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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14507 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW015

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		60	UG/L
Chromium	76		10	UG/L
Zinc	66		20	UG/L
Lead	120		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB : EE-91-20561 MATRIX: WATER
SAHPLE ID CLIENT: P27-GW017

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		60	UG/L
Chromium	36		10	UG/L
Zinc	39		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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-20562 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW017D

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		60	UG/L
Chromium	34		10	UG/L
Zinc	34		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

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
Arsenic	ND		60	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

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

JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB : HBTHOD BLANK MATRIX: WATER

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		60	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

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

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
Arsenic	ND		60	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		25	UG/L
Silver	ND		10	UG/L

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

JOB NUMBER :9101.565

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
Arsenic	ND		60	UG/L
Chromium	ND		10	UG/L
Zinc	ND		20	UG/L
Lead	ND		40	UG/L
Cadmium	ND		5.0	UG/L
Nickel	ND		40	UG/L
Copper	ND		2s	UG/L
Silver	ND		10	UG/L

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

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

9102.102

(ug/L)

Parameter	E 6 E Laboratory No. 91-20562	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Arsenic		ND	ND	NC
Cadmium		ND	ND	NC
Chromium		34	45	28
Copper		ND	ND	NC
Lead		ND	ND	NC
Nickel		ND	ND	NC
Silver		ND	ND	NC
Zinc		34	40	16

ND = NOT DETECTED

NC = NOT CALCULABLE

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9102.102

(ug/L)

Parameter	E & E Laboratory No. 91-20562	Original Value	Amount Added	Amount Determined	Percent Recovery
Arsenic		ND	2000	1900	95
Cadmium		ND	50	51	102
Chromium		34	200	230	100
Copper		ND	250	260	103
Lead		ND	500	460	92
Nickel		ND	500	500	100
Silver		ND	50	50	102
Zinc		34	500	540	102

ND = NOT DETECTED

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

JOB NUMBER :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14883 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW003

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 :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAHPLE ID LAB :EE-91-14884 MATRIX: WATER
SAHPLE ID CLIENT: P27-GW008

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14398 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW010

PARAMETER	RESULTS	Q	QNT. LIMIT	UNITS
TRPH	23		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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB :EE-91-14507 MATRIX: UATBR
SAMPLE ID CLIENT: P27-GW015

RESULTS	Q	QNT. LIMIT	UNITS
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 : WPNTPH1 JOB NUMBER : 9102.102

Ecology and Environment, Inc.
Analytical Services Center

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

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-20561 P27-GW017	ND		1.0
EE-91-20562 P27-GW017D	ND		1.0
METHOD BLANK	ND		1.0

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Canter

CLIENT : UH-8000 NASP - PEASE 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

JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 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

JOB NUMBER :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
SAMPLE ID LAB : HETHOD 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

9101.495

(mg/L)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Petroleum Eydrocarbons					
	Batch QC	11	8.5	22	125

ND = NOT DETECTED

** = RECOVERY NOT DETERHINED BECAUSE SAMPLE AHOUNT IS FOUR OR MORE TIHES GREATER THAN SPIKE AMOUNT.

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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.507

(mg/L)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Petroleum Hydrocarbons					
	Batch QC	ND	5.4	5.0	94

ND = NOT DETECTED

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

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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.565

(mg/L)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
T. Recoverable Patroleum Hydrocarbons					
	Batch QC	ND	8.5	7.8	91.3

ND = NOT DETECTED

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

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

TEST CODE :WPNPRG1 JOB NUMBER :9101.565

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-91-14883 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW003

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	20		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 :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14884 MATRIX : WATER
SAMPLE ID CLIENT: P27-GW008

PARAUETER	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	40		10
1,1,1 - Trichloroethane	36		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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TBST NME : PNC PURGABLES- GC UNITS : UG/L
SAMPLE ID LAB : EE-91-14398 MATRIX: WATER
SMPLB ID CLIENT: P27-GW010

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		lo
Toluene	ND		10
Ethylbenzene	ND		10
Total Xylenes	13		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 = COHMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :WPNPRG1 JOB NUMBER :9101.507

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-91-14507 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW015

PARAMETER	RESULTS	Q	QNT. LIMIT
Benzene	ND		lo
Toluene	ND		10
Gthylbenzene	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	120	J	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

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-91-20561 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW017

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 :9102.102

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-91-20562 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW017D

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

TEST CODE :WPNPRGI JOB NUMBER :9102.102

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 : METHOD BLANK MATRIX: VATER

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 - 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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TBST 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
Hethylene 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
Trichloroethenc	ND		10
Tetrachloroethenc	ND		10
Chlorobenzene	ND		10

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

TEST CODE :WPNPRG1 JOB NUMBER :9101.507

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		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 - Dichloroerhene	ND		10
1,1 - Dichloroethane	ND		10
1,1,1 - Trichloroethane	ND		10
1,2 - Dichloroathane	ND		10
Trichloroethenc	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 :9101.565

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		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 = COHMENT 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

9102.102

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	20561	113
	20562	113
	Method Blank	113
1,4-Dichlorobutane	20561	141
	20562	129
	Method Blank	144

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.495

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14398	71
	Method Blank	88
1,4-Dichlorobutane	14398	91
	Method Blank	120

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.507

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14507	90
	Method Blank	100
1,4-Dichlorobutane	14507	96
	Method Blank	100

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY OF SURROGATE SPIKES

9101.565

Compound	E & E Laboratory No. 91-	Percent Recovery
Trifluorotoluene	14883	100
	14884	112
	Method Blank	100
1,4-Dichlorobutane	14883	85
	14884	96
	Method Blank	100

QUALITY CONTROL FOR ACCURACY AND PRECISION:
PERCENT RECOVERY OF WATER MATRIX SPIKE (MS)
(Sample # Blank Spike)

9101.565

(ug/L)

Parameter	E 6 E Laboratory No. 91- Blank Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzene		ND	20	19	95
Toluene		ND	20	18	90
Ethyl Benzene		ND	20	19	9s
1,2-Dichlorobenzene		ND	20	17	85
1,3-Dichlorobenzene		ND	20	16	80
1,4-Dichlorobenzene		ND	20	16	80
1,1-Dichloroethene		ND	20	11	55
Methylene Chloride		ND	20	19	95
Trans-1,2-Dichloroethene		ND	20	19	95
1,1-Dichloroethane		ND	20	21	105
1,1,1-Trichloroethane		ND	20	20	100
1,2-Dichloroethane		ND	20	24	120
Trichloroethene		ND	20	22	110
Tetrachloroethene		ND	20	22	110

ND = NOT DETECTED

TEST CODE :WPNPAH1 JOB NUMBER :9101.565

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-91-14883 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW003

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 :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
TEST NAME : PNC PAR - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-14884 MATRIX : WATER
SAMPLE ID CLIENT: P27-GW008

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 :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : LTE-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PAR - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-14398 MATRIX: WATER
SAHPLB ID CLIENT: P27-GW010

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 :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : PNC PAH - LC UNITS : UG/L
SAMPLE ID LAB : BE-91-14507 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW015

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 :9102.102

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-91-20561 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW017

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

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

TEST CODE :WPNPAHI JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PAE - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-20562 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW017D

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 :WPNPAB1 JOB NUMBER :9102.102

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 : METHOD BLANK MATRIX: VATER

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 CODB :WPNPAH1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

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

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

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

TEST CODE :WPNPAH1 JOB NUMBER :9101.507

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 : 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

TEST CODE :WPNPAH1 JOB NUMBER :9101.565

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 : METHOD BLANK MATRIX: VATER

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

9102.102

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene	20562 MS	ND	10	6.6	66

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.495

(ug)

Parameter	E & E Laboratory No. 91-Blank	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene		ND	20	16	80

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED WATER SAMPLES

9101.507

(ug)

Parameter	E & E Laboratory No. 91- Blank	Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene			ND	20	16	80

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED WATER SAMPLES

9101.565

(ug)

Parameter	E Q E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Benzo(a)pyrene					
	14883 MS	ND	5.0	3.7	74
	Batch QC	ND	5.0	4.6	92

ND = NOT DETECTED

TEST CODE :WPNPHL1 JOB NUMBER :9101.565

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-91-14883 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW003

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 :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
TEST NAME : PNC PEENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-14884 MATRIX : WATER
SAMPLE ID CLIENT: P27-GW008

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 CODB :WPNPHL1 JOB NUMBER :9101.495

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 : BE-91-14398 MATRIX: VATER
SAMPLE ID CLIENT: P27-GW010

PARAMETER	RESULTS	Q	QNT. LIMIT
Total as Trichlorophenol	620		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 :9101.507

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-91-14507 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW015

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 :9102.102

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-91-20561 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW017

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 BELOV STATED DETECTION LIMIT

TEST CODE :WPNPHL1 JOB NUMBER :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : EE-91-20562 MATRIX : WATER
SAMPLE ID CLIENT: P27-GW017D

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 :9102.102

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
TEST NAME : PNC PHENOL - LC UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: VATER

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

TBST CODE :WPNPHL1 JOB NUMBER :9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TBST 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 = ESTIHATED VALUE B = *ALSO* PRESENT IN BLANK
L = PRESENT BBLOW STATED DETECTION LIMIT

TEST CODE :WPNPHL1 JOB NUMBER :9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PEENOL - 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

TEST CODE : WPNPBL1 JOB NUMBER : 9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PHASE 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

9102.102

(ug)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol					
	Blank Spike	ND	100	94	94

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.495

(ug)

Parameter	E & E Laboratory No. 91-Blank	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol		ND	100	95	95

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101.507

(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

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY FOR SPIKED VATER SAMPLES

9101.565

(ug)

Parameter	E 6 E Laboratory No. 91- Blank	Spike	Original Value	Amount Added	Amount Determined	Percent Recovery
2,4,6-Trichlorophenol			ND	100	111	111

ND = NOT DETECTED

TEST CODE :WPNP&P1 JOB NUMBER :9101.565

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-91-14883 MATRIX : WATER
SAMPLE ID CLIENT: P27-GW003

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 :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCE 2
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : E€-91-14884 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW008

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 : 9101.495

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UE-8000 NASP - PEASE I BATCH 2
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : BE-91-14398 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW010

PARAMETER	RESULTS	Q	QNT. LIMIT
Heptachlor	ND		5.0
Lindane	ND		5.0
Aldrin	ND		5.0
494 - DDT	ND		5.0
Dieldrin	ND		5.0
Endrin	ND		5.0
Chlordane	ND		5.0
4,4-DDE	ND		5.0
Total PCBs	ND		10

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

TEST CODE : WPNP&P1 JOB NUMBER : 9101.507

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UB-8000 NASP - PEASE I BATCE 2
TEST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : EE-91-14507 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW015

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 :9102.102

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-91-20561 MATRIX: WATER
SAMPLE ID CLIENT: P27-GW017

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&PI JOB NUMBER :9102.102

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-91-20562 MATRIX : WATER
SAMPLE ID CLIENT: P27-GW017D

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

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAHE : PNC PEST./PCB UNITS : UG/L
SAHPLE 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

TEST CODE :WPNP&P1 JOB NUMBER :9101.495

Ecology and Bnvironment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TBST NAME : PNC PEST./PCB UNITS : UG/L
SAMPLE ID LAB : METHOD BLANK MATRIX: UATBR

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
Bndrin	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 :9101.507

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: VATER

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
Bndrin	ND		5.0
Chlordane	ND		5.0
4,4-DOE	ND		5.0
Total PCBs	ND		10

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

TEST CODE :WPNP&P1 JOB NUMBER :9101.565

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UR-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
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

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF WATER MATRIX SPIKE
(Sample # 14398)

9101.495

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
	(ug/L)			
Heptachlor	ND	2.0	1.39	70
Lindane	ND	2.0	1.53	77
Aldrin	ND	2.0	1.74	87
4,4'-DDT	ND	5.0	3.35	67
Dieldrin	ND	5.0	4.27	85
Endrin	ND	5.0	4.76	95
Chlordane	ND	- -	- -	NA
4,4'-DDE	ND	- -	- -	NA
PCB-1254	ND	25.0	22.9	92

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF WATER MATRIX SPIKE
(Sample # 14507)

9101.507

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		(ug/L)		
Eeptachlor	ND	2.0	2.28	114
Lindane	ND	2.0	2.57	128
Aldrin	ND	2.0	2.58	129
4,4'-DDT	ND	5.0	4.21	84
Dieldrin	ND	5.0	6.39	129
Endrin	ND	5.0	7.21	144
Chlordane	ND	- -	- -	NA
4,4'-DDE	ND	- -	- -	NA
AR1254	ND	25.0	32.0	128

ND = NOT DETECTED

NA = NOT APPLICABLE

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF WATER MATRIX SPIKE
(Sample # 14884)

9101.565

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
	(ug/L)			
Heptachlor	ND	2.0	1.69	84
Lindane	ND	2.0	2.00	100
Aldrin	ND	2.0	1.98	99
4,4'-DDT	ND	5.0	2.90	58
Dieldrin	ND	5.0	4.98	100
Endrin	ND	5.0	5.58	112
PCB-1254	ND	25.0	24.6	98

ND = NOT DETECTED

QUALITY CONTROL FOR ACCURACY:
PERCENT RECOVERY OF WATER MATRIX SPIKE
(Sample # 20562)

9102.102

Compound	Original Result	Amount Added	Amount Determined	Percent Recovery
		(ug/L)		
Heptachlor	ND	2.0	2.04	102
Lindane	ND	2.0	2.50	125
Aldrin	ND	2.0	1.90	95
4,4'-DDT	ND	5.0	5.25	105
Dieldrin	ND	5.0	6.05	121
Endrin	ND	5.0	6.38	128
PCB-1254	ND	25.0	23.3	93

ND = NOT DETECTED

APPENDIX L

EXISTING PERMANENT MONITORING WELL GROUNDWATER SAMPLING ANALYTICAL RESULTS

M E M O R A N D U M

TO: John Barksdale

FROM: Gary Hahn Gary Hahn / TB

DATE: August 02, 1991

SUBJECT: NAS Pensacola - Site 27 Group G
Inorganic Data Package

RE: 9101.557

CC: Lab File

Attached is the laboratory report of the analysis conducted on six samples received at the Analytical Services Center on June 28, 1991. Analysis was performed according to the procedures set forth in USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis, 7/88, and "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-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/bjh
enclosure

Case Narrative

9101.557
NAS Pensacola - Site 27 Group G
Inorganic Data Package

A request was made on July 26, 1991 by Brian Caldwell to have sample WFB007 analyzed for hardness. This analysis in not listed on the chain of custody record.

Arbitrary times are reported on Form 14 for mercury and cyanide, The instruments used for these analysis are not capable of recording time.

A discrepancy may exist between MSA results reported and those listed on raw data. The linear regression formula used by the furnace instrument for HSA calculations in not that required by the SOU. The software used in form generation does use the correct formula and all HSA results reported have been calculated by this method.

The final CCB for cyanide run on 07-05-91 was rejected due to false reading of air bubbles caused by an autosample malfunction. An ICB on the following tray has been re-labeled as the final CCB and is acceptable.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Gary Hahn

Gary Hahn
Manager - Analytical Services Center

Date 8/6/91

GH/bjh
Enclosure

M E M O R A N D U M

TO: John Barksdale

FROM: Gary Hahn G Hahn/TB

DATE: August 02, 1991

SUBJECT: NAS Pensacola - Site 27 Group G
Organic Data Package

RE: 9101.557

CC: Lab File

Attached is the laboratory report of the analysis conducted on seven samples received at the Analytical Services Center on June 28, 1991. Analysis was performed according to the procedures set forth in USEPA Contract Laboratory Program, Statement of Work for Organic Analysis, 2/88.

All samples on which this report is based will be retained by E 6 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/bjh
enclosure

Based on the amount of mass spectral information available, the GCMS computer is not always able to supply three matches for the unknown.

All volatile samples required reanalysis due to low recovery of the surrogate compound-bromofluorobenzene. Similar low recovery was recorded for the reanalysis indicating a matrix effect. It should be noted that the pH of all volatile samples was determined to be <1.0. Also, the samples used for reanalysis were taken from vials containing head space.

Isopropyl alcohol was detected in several of the volatile samples. This compound interferes with acetone. Acetone levels reported are based on manual calculations using the mass ion 58.

Freon-113 and hexane have been reported as tentatively identified compounds for several volatile samples. Although neither of these compounds were detected in associated method blanks, they are known to be laboratory contaminants and should be viewed as such.

Carbon Disulfide was detected in the matrix spike sample of WTB007. This is a laboratory contaminant and should nut be considered native to the sample.

The semi-volatile fraction of WRB007MS injected at 2012 on 07/02/91 while the 12 hour tune clock expired at 2051. The final two semi-volatile compounds eluted after the clock had expired.

The pesticide fraction blank spike is identified as MSB1.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Gary Hahn

Gary Hahn
Manager - Analytical Services Center

Date
8/6/91

GH/bjh
Enclosure

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International Specialists in the Environment

See Jack Miller

CLP Analysis

(TCL for Site 27)

CHAIN-OF-CUSTODY RECORD

Project No.: UH8020
Project Name: NAS Pensacola Site 27 Group G
Project Manager: John Banksdale
Samplers: (Signature) Arnold C Lamb
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	Metals (total + Dissolved)	Hardness	TOC, PAH's, PCB's, Pesticides	Bikalinity	Cyanide	TRPH + VOC + Sulfate, Sulfide, Chloride, TDS	REMARKS
W 002	6/27/91	0433		X		LOW	P27W002 W'ell 002	12	X	X	X	X	X	X	VOA Lot # 1123033 QC# 10353C
															Liter poly Lot # 1092021 QC # 10230C
															Liter Amber Lot # 1109012 QC # 10320C
															1/2 gal Amber Lot # 1094012 QC # 10278C
						Preservatives:									
						HCL Mallinckrodt Lot # 5587 KEGP - VOA									
						H_2SO_4 Mallinckrodt Lot # 6843 KCBG - TRPH, TOC									
						HNO_3 Mallinckrodt Lot # 6623 KCCG - Metals (Diss & total), Hardness									
						Cyanide preserved with NaOH (>12 PH)									
															All samples packed in ICE <4°C

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via
Arnold C Lamb	6/27/91 1700					FEDERAL EXPRESS
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	BL/Airbill Number: 0776546245
Relinquished By: (Signature) Fed. Express	Date/Time 4-28-91 0950	Received For Laboratory By (Signature)	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By (Signature)	Date: 6/27/91

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

234068

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See Jack Miller

CLP Analysis

(FCL for Site 27)

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project No.: UH8020
Project Name: DNAS Pensacola Site 27 Grp G
Project Manager: John Barksdale
Samplers (Signatures): [signature]
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	Metals (Total & Dissolved)	Hardness	TOC, BNAs, PCBs, Pesticides	Alkalinity	Cyanide	TRPH + VOC & Xylene values for QC	REMARKS
002D	6/27/91	0933		X		LAN	P27WD02 W001002	12	X	X	X	X	X	X	VOA Lot# 1123033
															QC# 10353C
															Liter poly Lot# 1092021
															QC# 10230C
															Liter Amber poly Lot# 1109012
															QC# 10320C
						Preservatives:									½ gal. Amber Lot# 1094012
						HCL Mallinckrodt Lot# 5587KEGP - VOA									QC# 10278C
						H_2SO_4 Mallinckrodt Lot# 6843KCBG - TRPH, TOC									
						HNO_3 Mallinckrodt Lot# 6623KCG - metals (Dissolved total), Hardness									
						Cyanide preserved with (NaOH >12 pH)									
															All Samples packed in ICE <4°C

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Ship Via
[signature]	6/27/91 1700					FEDERAL EXPRESS
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	
						BL/Airbill Number: 0776546260
Relinquished By: (Signature) Fed Express	Date/Time: 6-28-91/0950	Received For Laboratory By (Signature): [signature]	Relinquished By: (Signature)	Date/Time:	Received For Laboratory By (Signature):	Date: 6/27/91

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

234086

See Jack Miller CLP Analysis TCL list for Site 27

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CHAIN-OF-CUSTODY RECORD

Project No.: UH8020
Project Name: NAS Pensacola Site 27 Group G
Project Manager: John Barksdale
Samplers: (Signatures) Arnold C. Lamb
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	Metals (total & Dissolved)	Hardness	TOC	BNAs, PCBs, Pesticides	Alkalinity	Cyanide	TRPH + VOC + Xylene + Ketones	REMARKS
N 054	4/27/91	1130		X		Low	P27W054 well 54	12	X	X	X	X	X	X	X	VOA Lot# 1123033 QC# 10353C
																Liter poly Lot# 1092021 QC# 10230C
																Liter amber Lot# 1109012 QC# 10320C
																1/2 gal Amber Lot# 1094012 QC# 10278C
						Preservatives:										
						HCL Mallinckrodt Lot# 5587KEGP - VOA										
						H_2SO_4 Mallinckrodt Lot# 6843KCBG - TRPH, TOC										
						HNO_3 Mallinckrodt Lot# 6623KCG - metals (total + Diss), Hardness										
						Cyanide preserved with NaOH.										
																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	4/27/91 1700				
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Relinquished By: (Signature) Fed. Express	Date/Time 4-29-91 0930	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)

Ship Via: FEDERAL EXPRESS
BL/Airbill Number: 0776546234
Date: 4/27/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
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234068

9

See Jack Miller

CLP Analysis

(TCL site 27)

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International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: UH8020
Project Name: NAS Pensacola
Project Manager: John Barksdale
Samplers: (Signature)
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	Pesticides/BNAs/PCBs	Cyanide	Alkalinity	Dissolved metals	Total metals	TOC + TRPH	VOCs, Ketones, Xylenes	REMARKS
FB007	6/27/91	1530		X		Low	P27WFB007	1	X	X	X	X	X	X		VOA Lot# 1123033 QC# 10353C
																Liter poly Lot# 1092021 QC# 10230C
																Liter Amber Lot# 1109012 QC# 10320C
																½ gal Amber Lot# 1094012 QC# 10278C

maybe 12 containers? BC Off

Preservatives:
HCl Mallinckrodt Lot# 5587KEGP - VOA
H_2SO_4 Mallinckrodt Lot# 6843KCBG - TRPH, TOC.
HNO_3 Mallinckrodt Lot# 6623KCG - Metals (Dissolved), Hardness

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)
	6/27/91 1700				
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Relinquished By: (Signature) Fed Express	Date/Time 6/28/0930	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)

Ship Via: FEDERAL EXPRESS
BL/Airbill Number: 077 654 6282
Date: 6/27/91

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CLP Analysis

(TCL Site 27)

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CHAIN-OF-CUSTODY RECORD

Project No.: UH8020
Project Name: NAS Pensacola, Site 27 Group G
Project Manager: John Barksdale
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	Cyanide	TRPH	Total & Dissolved metals	VOCs & ketones + Butanol	BNAs, Pesticides, PCBs	REMARKS
RB007	6/26/91	1615		X		(aq)	P27W007 Rinsate Blank	9	X	X	X	X	X	VOA Lot# 1123033 QC# 10353C
														Liter poly Lot# 1092021 QC# 10230C
														Liter Amber Lot# 1109012 QC# 10320C
														½ gal Amber Lot# 1094012 QC# 10278C
						Preservative:								
						HCL Mallinckrodt Lot# 5587 KEGP - VOA								
						H_2SO_4 Mallinckrodt Lot# 6843KCBG - TRPH, TOC								
						HNO_3 Mallinckrodt Lot# 6623 KCG - metals (diss + total), Hardness								
						Cyanide preserved with (NaOH Ph > 12)								

pH<2

All samples packed in ICE <4°C

Relinquished By (Signature)	Date/Time	Received By (Signature)	Relinquished By (Signature)	Date/Time	Received By (Signature)
	6/27/91 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	6-28-91/0930				

Ship Via: FEDERAL EXPRESS
BL/Airbill Number: 0776546293
Date: 6/27/91

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files
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234066

See Jack Miller CLP Analysis

(TCL for site 27)

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International Specialists in the Environment

CHAIN-OF-CUSTODY RECORD

Project No.: UH8020
Project Name: NAS Pensacola site 27 Group G
Project Manager: John Burksdale
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	Metals Total	TRPH	TOC	Hardness	Cyanide	VOC + Xylene & Naphthalene (per IBC)	REMARKS
1 W P8007	6/27/91	1230		X		Low	P27W P8007 Preservative Blank	8	X	X	[redacted]	X	X	VOA	Lot# 1123033
W T8007	6/27/91	1530		X		Low	P27W T8007 Trip Blank	2	[redacted]				X		QC# 10353C
														Liter poly	Lot# 1092021
															QC# 10230C
														Liter amber	Lot# 1109012
															QC# 10320C
						Preservatives:								1/2 gal amber	Lot# 1094012
						HCL Mallinckrodt Lot# 5587KEGP - VOA									QC# 10278C
						H_2SO_4 Mallinckrodt Lot# 6843KCBG - TRPH, TOC									
						HNO_3 Mallinckrodt Lot# 6623KCG - metals (Diss + total), Hardness									
						Cyanide preserved with NaOH (pH > 12)									All samples packed in ICE <4°C

Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Ship Via
Arnold C Lamb	6/27/91 1700					FEDERAL EXPRESS
Relinquished By: (Signature)	Date/Time:	Received By: (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	BL/Airbill Number: 0776546271
Relinquished By: (Signature) Fed Express	Date/Time: 6-27-91	Received For Laboratory By: (Signature)	Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)	Date: 6/27/91

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

236066

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SAMPLE ID REFERENCE

E & E Job Number 9101.557

LAB SAMPLE ID	CLIENT BAMPLE ID	ID USED IN REPORTING
14821	P-27-W002	W002
14822	P-27-W002D	W002D
14823	P-27-W054	W054
14824	P-27-WFB007	WFB007
14825	P-27-WPB007	WPB007
14826	P-27-WRB007	WRB007
14827	P-27-WTB007	WTB007
14828	P-27-W002-Diss.	W002 Diss
14829	P-27-W002D-Diss.	W002D Diss
14830	P-27-W054-Diss.	W054 Diss
14831	P-27-WFB007-Diss.	WFB007 Diss
14832	P-27-WRB007 Diss.	WRB007 Diss

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W002

Lab Name: ECOLOGY-AND-ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB00?

Matrix (soil/water): WATER Lab Sample ID: 14821____

Level (low/med): LOW__ Date Received: 06/28/91

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1500			P
17440-36-0	Antimony	51.01	U		P
7440-38-2	Arsenic	2.0	U		F
7440-39-3	Barium	16.4	B		P
17440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.01	U		P
7440-70-2	Calcium	25500			P
7440-47-3	Chromium	8.01	U		P
7440-48-4	Cobalt	5.01	U		P
7440-50-8	Copper	5.1	B		P
7439-89-6	Iron	1670			P
7439-92-1	Lead	11.9		S	F
7439-95-4	Magnesium	2400	B		P
7439-96-5	Manganese	115			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	18.0	U		P
7440-09-7	Potassium	2810	B		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	9040			P
7440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	5.9	B		P
7440-66-6	Zinc	30.1			P
	Cyanide	10.0	U		AS

Color Before: CL_____ Clarity Before: CL____ Texture _____

Color After: CL_____ Clarity After: CL____ Artifacts: _____

Comments:

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7/88

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE No.

W002 Diss.

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water) : WATER Lab Sample ID: 14828_____

Level (low/med) : LOW__ Date Received: 06/28/91

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight) : UG/L_

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum_	23.6	B		P_
7440-36-0	Antimony_	51.0	U		P_
7440-38-2	Arsenic__	2.0	U		F_
7440-39-3	Barium___	9.0	U		P_
17440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	3.0	U		P_
7440-70-2	Calcium__	18400	_		P_
7440-47-3	Chromium_	8.0	U		P_
7440-48-4	Cobalt —	5.0	U		P_
17440-50-8	Copper___	3.0	U		P_
17439-89-6	Iron____	21.1	B		P_
7439-92-1	Lead____	1.0	U	W	F_
7439-95-4	Magnesium	2040	B		P_
7439-96-5	Manganese	1.0	U		P_
17439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	18.0	U		P_
7440-09-7	Potassium	2110	B		P_
7782-49-2	(Selenium	2.0	U	N	F_
17440-22-4	Silver___	3.0	U		P_
17440-23-5	[Sodium__	8940	_		P_
17440-28-0	Thallium_	3.0	U	W	F_
17440-62-2	Vanadium_	5.0	U		P_
7440-66-6	Zinc____	5.1	B		P_
	Cyanide__		_		NR

Color Before: CL_____ Clarity Before: C_____ Texture: _____

Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments:

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7/88

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W002D

Lab Name: ECOLOGY-AND-ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water) : WATER Lab Sample ID: 14822_____

Level (low/med) : LOW___ Date Received: 06/28/91

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/'L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	1110	_		P_
7440-36-0	Antimony_	51.0	U		P_
7440-38-2	Arsenic__	2.0	U		F_
7440-39-3	Barium___	14.5	B		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	3.0	U		P_
7440-70-2	Calcium__	24300	_		P_
7440-47-3	Chromium_	8.0	U		P_
7440-48-4	Cobalt___	5.01	U		P_
7440-50-8	(Copper__	3.5	B		P_
7439-89-6	Iron_____	1680	_		P_
7439-92-1	Lead_____	12.91	_	S	F_
7439-95-4	Magnesium	2450	B		P_
7439-96-5	Manganese	102	_		P_
7439-97-6	Mercury__	0.201	U		CV
7440-02-0	Nickel___	18.01	U		P_
7440-09-7	Potassium	2580	B		P_
7782-49-2	Selenium_	2.0	U	N	F_
7440-22-4	Silver___	3.01	U		P_
7440-23-5	Sodium___	8840	_		P_
7440-28-0	Thallium_	3.0	U	W	F_
7440-62-2	Vanadium_	6.7	B		P_
7440-66-6	Zinc____	24.0	_		P_
	Cyanide__	10.0	U		AS
			_		

Color Before: CL_____ Clarity Before: CL____ Texture: _____

Color After: CL_____ Clarity After: CL____ Artifacts: _____

Comments:

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7/88

EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

W002D Diss.

'ab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

ab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water): WATER Lab Sample ID: 14829_____

Level (low/med): LOW__ Date Received: 06/28/91

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	37.8 ~~3310~~	B		P_
7440-36-0	Antimony_	51.0	U		P_
7440-38-2	Arsenic__	2.0	U		F_
7440-39-3	Barium___	9.4	B		P_
7440-41-7	Beryllium	1.0	U		P_
17440-43-9	Cadmium__	3.0	U		P_
7440-70-2	Calcium__	23000	_		P_
7440-47-3	Chromium_	8.0	U		P_
7440-48-4	Cobalt___	5.0	U		P_
17440-50-8	Copper___	3.7	B		P_
7439-89-6	Iron____	23.9	B		P_
7439-92-1	Lead____	1.0	U	W	F_
7439-95-4	Magnesium	2260	B		P_
7439-96-5	Manganese	1.0	U		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	18.0	U		P_
7440-09-7	Potassium	3310	B		P_
7782-49-2	Selenium_	2.0	U	N	F_
7440-22-4	Silver___	3.0 ~~9010~~	U		P_
7440-23-5	Sodium___	9010	_		P_
7440-28-0	Thallium_	3.0	U	W	F_
17440-62-2	Vanadium_	5.0	U		P_
7440-66-6	Zinc____	4.4	B		P_
	Cyanide__		_		NR

pan 7-18-91

Color Before: ,CL_____ Clarity Before: C_____ Texture: _____

Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO,

W054

Lab Name: ECOLOGY-AND-ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water): WATER Lab Sample ID: 14823

Level (low/med): LOW Date Received: 06/28/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum	725			P
17440-36-0	Antimony	51.0	U		P
17440-38-2	Arsenic	3.2	B		F
7440-39-3	Barium	22.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	46400			P
7440-47-3	Chromium	8.0	U		P
7440-48-4	Cobalt	6.5	B		P
17440-50-8	Copper	13.3	B		P
7439-89-6	Iron	2980			P
17439-92-1	Lead	10.5		S	F
7439-95-4	Magnesium	2460	B		P
7439-96-5	Manganese	21.9			P
17439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	18.0	U		P
17440-09-7	Potassium	2190	B		P
17782-49-2	Selenium	2.0	U	WN	F
17440-22-4	silver	3.0	U		P
7440-23-5	Sodium	12600			P
7440-28-0	Thallium	3.0	U	W	F
17440-62-2	Vanadium	8.8	B		P
7440-66-6	Zinc	80.5			P
	Cyanide	10.0	U		AS

Color Before: CL Clarity Before: CL Texture: _____

Color After: CL Clarity After: CL Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

W054 Diss

Cab Name: ECOLOGY-AND-ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water): WATER Lab Sample ID: 14830_____

Level (low/med): LOW__ Date Received: 06/28/91

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	145	B		P_
7440-36-0	Antimony_	51.0	U		P_
7440-38-2	Arsenic__	2.0	U	W	F_
17440-39-3	Barium___	10.3	B		P_
7440-41-7	(Beryllium(	1.0	U		P_
7440-43-9	Cadmium__	3.0	U		P_
7440-70-2	Calcium__	32900	_		P_
7440-47-3	Chromium_	8.0	U		P_
7440-48-4	Cobalt___	5.0	U		P_
7440-50-8	Copper___	3.6	B		P_
7439-89-6	Iron	23.8	B		P_
7439-92-1	Lead_____	1.0	U	W	F_
17439-95-4	Magnesium	2120	B		P_
7439-96-5	Manganese	1.0	U		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	18.0	U		P_
7440-09-7	Potassium	2160	B		P_
7782-49-2	Selenium_	2.0	U	WN	F_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	13000	_		P_
7440-28-0	Thallium_	3.0	U	W	F_
7440-62-2	Vanadium_	8.3	B		P_
7440-66-6	Zinc_____	10.2	B		P_
	Cyanide__		_		NR

Color Before: CL_____ Clarity Before: C_____ Texture: _____

Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WFB007

Lab Name: ECOLOGY AND ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.: 9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water): WATER Lab Sample ID: 14824

Level (low/med): LOW Date Received: 06/28/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum	14.2	B		P
7440-36-0	Antimony	51.0	U		P
7440-38-2	Arsenic	2.0	U	W	F
17440-39-3	Barium	9.0	U		P
7440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0	U		P
17440-70-2	Calcium	141	U		P
17440-47-3	Chromium	8.0	U		P
7440-48-4	Cobalt	5.0	U		P
17440-50-8	Copper	3.0	U		P
7439-89-6	Iron	1110			P
7439-92-1	Lead	1.6	B		F
17439-95-4	Magnesium	126	U		P
17439-96-5	Manganese	1.7	B		P
7439-97-6	(Mercury	0.20	U		CV
17440-02-0	Nickel	18.0	U		P
17440-09-7	Potassium	691	U		P
17782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
17440-23-5	Sodium	264	B		P
17440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium	5.0	U		P
17440-66-6	Zinc	4.0	U		P
	Cyanide —	10.0	U		AS

Color Before: CL Clarity Before: C Texture: _____

Color After: CL Clarity After: C Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WFB007 Diss.

Lab Name: ECOLOGY-AND-ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water) : WATER Lab Sample ID: 14831

Level (low/med) : LOW Date Received: 06/28/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.2	B		P
7440-36-0	Antimony	51.0	U		P
7440-38-2	Arsenic	2.0	U		F
17440-39-3	Barium	9.0	U		P
7440-41-7	Beryllium	1.0	U		P
17440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	141	U		P
7440-47-3	Chromium	8.0	U		P
17440-48-4	Cobalt	5.0	U		P
17440-50-8	Copper	3.0	U		P
7439-89-6	Iron	9.9	B		P
7439-92-1	Lead	1.0	U		F
17439-95-4	Magnesium	126	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
17440-02-0	Nickel	18.0	U		P
17440-09-7	Potassium	691	U		P
7782-49-2	Selenium	2.0	U	N	F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	247	B		P
17440-28-0	Thallium	3.0	U	W	F
7440-62-2	Vanadium:	5.0	U		P
7440-66-6	Zinc	4.0	U		P
	Cyanide				NR

Color Before: CL Clarity Before: C Texture: _____

Color After: CL Clarity After: C Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WPB007

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9101.557 SAS No.: _____ SDG No.: WPB007

Matrix (soil/water): WATER Lab Sample ID: 14826_____

Level (low/med): LOW__ Date Received: 06/28/91

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

(CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	26.2	B		P_
17440-36-0	Antimony_	51.0	U		P_
7440-38-2	Arsenic__	2.0	U	W	F_
7440-39-3	Barium___	9.0	U		P_
7440-41-7	Beryllium	1.0	U		P_
17440-43-9	Cadmium —	3.0	U		P_
7440-70-2	Calcium__	185	B		P_
7440-47-3	Chromium_	8.0	U		P_
7440-48-4	Cobalt___	5.0	U		P_
7440-50-8	Copper___	3.2	B		P_
17439-89-6	Iron____	21.5	B		P_
7439-92-1	Lead____	1.0	U		F_
7439-95-4	Magnesium	126	U		P_
7439-96-5	Manganese	1.0	U		P_
17439-97-6	Mercury__	0.20	U		CV
17440-02-0	Nickel___	18.0	U		P_
7440-09-7	Potassium	691	U		P_
7782-49-2	Selenium_	2.0	U	N	F_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	184	B		P_
7440-28-0	Thallium_	3.0	U	W	F_
7440-62-2	Vanadium_	5.0	U		P_
17440-66-6	Zinc____	8.2	B		P_
	Cyanide__	10.0	U		AS

Color Before: CL_____ Clarity Before: C_____ Texture: _____

Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WRB007

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water): WATER Lab Sample ID: 14825_____

Level (low/med): LOW__ Date Received: 06/28/91

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	52.4	B		P_
7440-36-0	Antimony_	51.0	U		P_
7440-38-2	Arsenic__	2.0	U	W	F_
7440-39-3	Barium___	9.0	U		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	3.0	U		P_
7440-70-2	Calcium__	164	B		P_
7440-47-3	Chromium_	8.0	U		P_
7440-48-4	Cobalt___	5.0	U		P_
7440-50-8	Copper___	3.0	U		P_
7439-89-6	Iron_____	46.7	B		P_
7439-92-1	Lead_____	1.0	U		F_
7439-95-4	Magnesium	126	U		P_
7439-96-5	Manganese	1.0	U		P_
17439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	18.0	U		P_
7440-09-7	Potassium	691	U		P_
7782-49-2	Selenium_	2.0	U	N	F_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	273	B		P_
7440-28-0	Thallium_	3.0	U	W	F_
7440-62-2	Vanadium_	5.0	U		P_
7440-66-6	Zinc_____	7.3	B		P_
_____	Cyanide__	10.0	U		AS

Color Before: CL_____ Clarity Before: C_____ Texture: _____

Color After: CL_____ Clarity After: C_____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WRB007 Diss.

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water): WATER Lab Sample ID: 14832_____

Level (low/med): LOW — Date Received: 06/28/91

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum-	19.3	B		P_
7440-36-0	Antimony_	61.91	_		P_
7440-38-2	Arsenic__	2.0	U		F_
17440-39-3	Barium___	9.0	U		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	3.0	U		P_
7440-70-2	Calcium__	141	U		P_
7440-47-3	Chromium_	8.0	U		P_
17440-48-4	Cobalt___	5.0	U		P_
17440-50-8	Copper___	3.0	U		P_
7439-89-6	Iron_____	13.8	B		P_
17439-92-1	Lead_____	1.0	U		F_
7439-95-4	Magnesium	126	U		P_
17439-96-5	Manganese	1.0	U		P_
7439-97-6	Mercury__	0.20	U		CV
17440-02-0	Nickel___	18.0	U		P_
7440-09-7	Potassium	691	U		P_
7782-49-2	Selenium_	2.0	U	N	F_
7440-22-4	Silver___	3.5	B		P_
7440-23-5	Sodium___	144	U		P_
17440-28-0	Thallium_	3.0	U	W	F_
7440-62-2	Vanadium_	5.0	U		P_
17440-66-6	Zinc_____	4.0	U		P_
_____	Cyanide__		_		NR

Cyanide NR — 8/1/91

Color Before: .CL_____ Clarity Before: C_____ Texture: _____

Color After: CL_____ Clarity After: c_____ Artifacts: _____

Comments:

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Lab Name: ECOLOGY AND ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.: 9101.557 SAS No.: _____ SDG No.: WFB007

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	11.0	U	11.0	U	11.0	U	11.0	U	11.0	U	P
Antimony	51.0	U	51.0	U	51.0	U	51.0	U	51.0	U	P
Arsenic	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	F
Barium	9.0	U	9.0	U	9.0	U	9.0	U	9.0	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	P
Cadmium	3.0	U	3.0	U	3.0	U	3.2	B	3.0	B	P
Calcium	141.0	U	141.0	U	141.0	U	141.0	U	141.0	U	P
Chromium	8.0	U	8.0	U	8.0	U	8.0	U	8.0	U	P
Cobalt	.0	U	5.0	U	5.0	U	5.0	U	5.0	U	P
Copper	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	P
Iron	7.0	U	7.0	U	7.0	U	7.0	U	7.0	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	F
Magnesium	126.0	U	126.0	U	126.0	U	126.0	U	126.0	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	2.9	B	P
Mercury	0.2	U	0.2	U	0.2	U					CV
Nickel	18.0	U	18.0	U	18.0	U	18.0	U	18.0	U	P
Potassium	691.0	U	691.0	U	691.0	U	691.0	U	691.0	U	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	F
Silver	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	P
Sodium	144.0	U	144.0	U	144.0	U	144.0	U	203.9	B	P
Thallium	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	F
Vanadium	5.0	U	5.0	U	5.0	U	5.0	U	6.2	B	P
Zinc	4.0	U	4.0	U	4.0	U	5.3	B	4.0	U	P
Cyanide	10.0	U	10.0	U					10.0	U	AS

Lab Name: ECOLOGY-AND-ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.:9101.557 SAS No.: ——— SDG No.: WFB007

preparation Blank Matrix (soil/water): WATER

preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			11.0	U	11.0	U	11.0	U			P
Antimony			51.0	U	51.0	U	51.0	U			P
Arsenic			2.0	U	2.0	U					F
Barium			9.0	U	9.0	U	9.0	U			P
Beryllium			1.0	U	1.0	U	1.0	U			P
Cadmium			3.0	U	-4.1	B	3.0	U			P
Calcium			141.0	U	141.0	U	141.0	U			P
Chromium			8.0	U	8.0	U	8.0	U			P
Cobalt			5.0	U	5.0	U	5.0	U			P
Copper			3.0	U	3.0	U	3.0	U			P
Iron			7.0	U	7.6	B	7.0	U			P
Lead			1.0	U	1.0	U	1.0	U			F
Magnesium			126.0	U	126.0	U	126.0	U			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury											NR
Nickel			18.0	U	18.0	U	18.0	U			P
Potassium			691.0	U	691.0	U	691.0	U			P
Selenium			2.0	U							F
Silver			3.0	U	3.0	U	3.0	U			P
Sodium			144.0	U	144.0	U	144.0	U			P
Thallium			3.0	U	3.0	U	3.0	U			F
Vanadium			5.0	U	5.0	U	5.0	U			P
Zinc			4.0	U	4.0	U	4.0	U			P
Cyanide	10.0	U	10.0	U					10.0	U	AS

Lab Name: ECOLOGY-AND-ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
											P
Antimony			51.0	U	51.0	U					P
Arsenic											NR
Barium			9.0	U	9.0	U					P
Beryllium			1.0	U	1.0	U					P
Cadmium			3.0	U	3.0	U					P
											P
Chromium			8.0	U	8.0	U					P
Cobalt			-5.3	B	-7.0	B					P
Copper			3.0	U	3.0	U					P
Iron			8.3	B	7.0	U					P
Lead			1.0	U							F
Magnesium			126.0	U	126.0	U					P
Manganese			1.0	U	-2.4	B					P
Mercury											NR
Nickel			18.0	U	18.0	U					P
Potassium			691.0	U	691.0	U					P
Selenium											NR
Silver			3.0	U	3.0	U					P
Sodium			144.0	U	144.0	U					P
Thallium											NR
Vanadium			5.0	U	5.0	U					P
Zinc			4.0	U	4.0	U					P
Cyanide											NR

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WPB007S

Lab Name: ECOLOGY-AND-ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	1.1300		0.2000	U	1.00	113.0		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

FORM V (Part 1) - IN 7/88

SA
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

WRB007S

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix: __WATER_____ Level (low/med): _LOW____

% Solids for Sample: —0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum_									NR
(Antimony-									NR
Arsenic —									NR
Barium —									NR
Beryllium									NR
Cadmium__									NR
Calcium__									NR
Chromium_									NR
Cobalt___									NR
Copper___									NR
Iron____									NR
Lead____									NR
Magnesium									NR
Manganese									NR
Mercury__									NR
Nickel___									NR
Potassium									NR
[Selenium-									NR
Silver —									NR
Sodium —									NR
Thallium									NR
Vanadium_									NR
Zinc____									NR
Cyanide__	75-125_	94.0000	-	10.0000	U	91.70	102.5		AS

Comments:

FORM V (Part 1) - IN 7/88

SA
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

W002D S

Lab Name: ECOLOGY-AND-ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix: __WATER_____ Level (low/med): _LOW____

% Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony:									NR
Arsenic__									NR
Barium —									NR
Beryllium									NR
Cadmium__									NR
Calcium__									NR
Chromium_									NR
Cobalt___									NR
Copper___									N
Iron____									NR
Lead____									NR
Magnesium									NR
Manganese									NR
Mercury —									NR
Nickel___									NR
)Potassium									NR
Selenium_									NR
Silver —									NR
Sodium —									NR
Thallium									NR
Vanadium:									NR
Zinc____							107.0		NR
Cyanide —	75-125_	114.0000_		io.0000	U	91.70	~~124.3~~		AS

Comments:

par 7-18-91

FORM V (Part 1) - IN 7/88

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

W0541AS

ab Name: ECOLOGY AND ENVIRONMENT Contract:

Lab Code: EANDE Case No.: 9101.557 SAS No.: SDG No.: WFB007

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2105.7000							P
Antimony	75-125	559.2100							P
Arsenic	75-125	37.7700		2.0000	U	40.001	94.4		F
Barium	75-125	2053.4000		10.3120	B	2000.00	102.2		P
Beryllium	75-125	59.1400		1.0000	U	50.00	118.3		P
Cadmium	75-125	50.3260		3.0000	U	50.001	100.7		P
Calcium									NR
Chromium	75-125	208.4800		8.0000	U	200.00	104.2		P
Cobalt	75-125						100.9		P
Copper	75-125						97.4		P
Iron	75-125						98.5		P
Lead	75-125						88.8		F
Magnesium									NR
Manganese	75-125	488.4100		1.0000	U	500.00	97.7		P
Mercury									NR
Nickel	75-125	502.5000		18.0000	U	500.00	100.5		P
Potassium									NR
Selenium	75-125	6.6300		2.0000	U	10.00	66.3	N	F
Silver	75-125	51.0510		3.0000	U	50.00	102.1		P
Sodium									P
Vanadium	75-125	520.3000		8.2500	B	500.00	102.4		P
Zinc	75-125	505.7400		10.1780	B	500.001	99.1		P

Comments:

FORM V (Part 1) - IN 7/88

6
DUPLICATES

EPA SAMPLE NO.

WFB007D

Lab Name: ECOLOGY_AND_ENVIRONMENT — Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No. : _____ SDG No.: WFB007

Matrix (soil/water) : WATER Level (low/med) : _LOW__

% Solids for Sample: __0.0 % Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum_								NR
Antimony_								NR
Arsenic__								NR
Barium___								NR
Beryllium								NR
Cadmium__								NR
Calcium__								NR
Chromium_								NR
Cobalt___								NR
Copper___								NR
Iron								NR
Lead								
Magnesium								NR
Manganese								NR
Mercury__								NR
Nickel___								NR
Potassium								NR
Selenium_								NR
Silver___								NR
Sodium___								NR
Thallium_								NR
Vanadium_								NR
Zinc								NR
Cyanide__		10.0000	U	10.0000	U			AS

FORM VI - IN

7/88

6
DUPLICATES

EPA SAMPLE NO.

WPB007D

Lab Name: ECOLOGY-AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water): WATER Level (low/med): -LOW -

% Solids for Sample: __0.0 % Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum_								NR
Antimony_								NR
Arsenic__								NR
Barium___								NR
Beryllium								NR
Cadmium								NR
Calcium __								NR
Chromium_								NR
Cobalt___								NR
Copper___								NR
Iron								NR
Lead ___								NR
Magnesium								NR
Manganese								NR
Mercury__		0.2000	U	0.2000	U			CV
Nickel___								NR
Potassium								NR
Selenium_								NR
Silver___								NR
Sodium___								NR
Thallium								NR
Vanadium:								NR
Zinc_____								NR
Cyanide__								NR

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

W0547SSD

Lab Name: ECOLOGY-AND-ENVIRONMENT Contract: _____

Lab Code: EANDE Case No.:9101.557 SAS No.: _____ SDG No.: WFB007

Matrix (soil/water): WATER Level low/med): Low

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum				165.4500	B	13.0		P
Antimony				51.0000	U			P
Arsenic				2.0000	U			F
Barium				10.0090	B	3.0		P
Beryllium				1.0000	U			P
Cadmium				3.0000	U			P
Calcium				32630.0000		0.9		P
Chromium			U	9.6860	B	200.0		P
Cobalt				5.0000	U			P
Copper		3.5880	B	3.9530	B	9.7		P
Iron		23.8120	B	52.0390	B	74.4		P
Lead		1.0000	U	1.4200	B	200.0		F
Magnesium		2124.4000	B	2044.2000	B	3.8		P
Manganese		1.0000	U	1.0000	U			P
Mercury								NR
Nickel		18.0000	U	18.0000	U			P
Potassium		2159.1000	B	2053.5000	B	5.0		P
Selenium		2.0000	U	2.0000	U			F
Silver		3.0000	U	3.0000	U			P
Sodium	5000.0	13044.0000		13629.0000		4.4		P
Thallium		3.0000	U	3.0000	U			F
Vanadium:		8.2500	B	9.4230	B	13.3		P
Zinc		10.1780	B	8.7800	B	14.7		P
Cyanide								NR

IA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W002

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101_557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14821

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7770

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	19	B
67-64-1	Acetone	48	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W002

Lab Name: E & E INC. Contract:

Lub Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14821

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7770

Leue1: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Freon-113	3.52	8.0	J
2. 110543	Hexane	5.79	20	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W002D

Lab Name: E & E INC. Contract :

Lab Code: EANDE Case No.: 9101-557 SAS No. : SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14822

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7771

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	18	B
67-64-1	Acetone	30	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	IJ
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W002D

Lab Name: E & E INC. Contract:

Lab Code: EANOE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14822

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7771

Lave1: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Freon-113	3.53	15	J
2. 110543	Hexane	5.80	19	J

IA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W002DRA

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14822RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7849

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	B
67-64-1	Acetone	9	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W002DRA

Lab Name: E & E INC. Contract:

Lab Code: EANOE Case No..: 9101_557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14822RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7849

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.99	8.0	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W002RA

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14821RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7848

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	B
67-64-1	Acetone	10	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IOENTIFIED COMPOUNDS

EPA SAMPLE NO.

W002RA

Lab Name: E 8 E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14821RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7848

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Oate Analyzed: 07/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.90	12	J

A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W054

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14823

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7772

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	18	B
67-64-1	Acetone	28	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W054

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14823

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7772

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Freon-113	3.49	7.013	
2.	UNKNOWN	4.06	18	J
3. 110543	Hexane	5.76	17	J

1A

VOLATILE ORGANICS **ANALYSIS** DATA SHEET

EPA SAMPLE NO.

W054RA

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) **WATER** Lab Sample ID: 14823RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7850

Level: (low/med) LOW **Date Received:** 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	B
67-64-1	Acetone	13	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

IE

EPA SAMPLE NO.

W054RA

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14823RA

Ssmp1e wt/vo1: 5.0 (g/mL) ML Lab File ID: C7850

Leve1: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.00	8.1	J
2.	UNKNOWN OXYGENATED HYDROCARB	26.37	5.0	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFB007

Lab Name: E & E INC. Contract:

Lab Code: EANOE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14824

Ssmple wt/vol: 5.0 (g/mL) ML Lab File ID: c7773

Leve1: (low/med) LOW Date Receiued: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	17	B
67-64-1	Acetone	29	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY 'IDENTIFIED COMPOUNOS

EPA SAMPLE NO.

WFB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101_557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14824

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: c7773

Level: (low/med) LOW Date Receiued: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Freon-113	3.33	5.0	J
2. 110543	Hexane	5.76	19	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFB007RA

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14824RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7851

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	B
67-64-1	Acetone	12	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAHPLE NO.

WFB007RA

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14824RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7851

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WPB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14826

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7775

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	19	B
67-64-1	Acetone	15	B
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIUELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WPB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14826

Sample wt/vol: 5.0 (g/mL) ML Lab File IO: C7775

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column (pack/cap) CAP Oilution Factor: 1.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	freon-113	3.49	8.0	J
2.	UNKNOWN	4.11	3.0	J
3. 110543	Hexane	5.80	17	J
4.	UNKNOWN	22.65	6.015	

VOLATILE ORGANICS ANALYSIS OATA SHEET

EPA SAMPLE NO.

WPB007RA

Lab Name: E 8 E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14826RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7853

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	B
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

IE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WP8007RA

Lab Name: E 6 E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14826RA

Sample wt/vo1: 5.0 (g/mL) ML Lab File I0: C7853

Leve1: (low/med) LOW Date Receiued: 06/28/91

% moisture: not dec. Date Analyzed: 07/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	25.38	6.0	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WRB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101_557 SAS No.: SDG NO.:

Matrix: (soil/water) WATER Lab Sample ID: 14825

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7774

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	15	B
67-64-1	Acetone	25	B
75-15-0	Carbon Disulfide	5~~3~~	~~B~~U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WR8007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14825

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7774

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110543	Hexane	5.80	16	J
2.	UNKNOWN	22.62	10	J
3.	UNKNOWN	25.37	6.0	J

1A

UOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WRBO07RA

Lab Name: E & E INC. Contract:

,ab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

latrix: (soil/water) WATER Lab Sample ID: 14825RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7852

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUNO	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	lo	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	6	IB
67-64-1	Acetone	5	IBJ
75-15-0	Carbon Disulfide	5	IU
75-35-4	1,1-Dichloroethene	5	IU
75-34-3	1,1-Dichloroethane	5	IU
540-59-0	1,2-Dichloroethene (total)	5	IU
67-66-3	Chloroform	5	IU
107-06-2	1,2-Dichloroethane	5	IU
78-93-3	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5	IU
56-23-5	Carbon Tetrachloride	5	IU
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	5	IU
78-87-5	1,2-Dichloropropane	5	IU
10061-01-5	cis-1,3-Dichloropropene	5	IU
79-01-6	Trichloroethene	5	IU
124-48-1	Dibromochloromethane	5	IU
79-00-5	1,1,2-Trichloroethane	5	IU
71-43-2	Benzene	5	IU
10061-02-6	trans-1,3-Dichloropropene	5	IU
75-25-2	Bromoform	5	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5	IU
79-34-5	1,1,2,2-Tetrachloroethane	5	IU
108-88-3	Toluene	5	IU
108-90-7	Chlorobenzene	5	IU
100-41-4	Ethylbenzene	5	IU
100-42-5	Styrene	5	IU
1330-20-7	Xylene (total)	5	IU

UOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WR8007RA

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14825RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7852

Level: (low/med) LOW Date Received: 06/29/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

UOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WTB007

Lab Name: E 8 E INC. Contract:

Lab Code: EANOE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14827

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7776

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUNO	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	15	B
67-64-1	Acetone	20	B
75-15-0	Carbon Disulfide	~~52~~	~~B~~U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WTB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14827

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7776

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/02/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110543	Hexane	5.77	16	J
2.	UNKNOWN	22.61	6.0	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WTB007RA

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14827RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7854

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	7	B
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WTBO07RA

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SOG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14827RA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7854

Level: (low/med) LOW Date Receiued: 06/28/91

% Moisture: not dec. Date Analyzed: 07/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	25.40	8.015	
2.	UNKNOWN OXYGENATED HYDROCARBI	26.38	6.015	
3.	UNKNOWN	27.97	6.015	

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: E & E INC. Contract:

.ab Code: EANDE Case No. : 9101-557 SAS No. : SDG No. :

ab File ID: C7769 Lab Sample ID: VBLKW1

Date Analyzed: 07/02/91 Time Analyzed: 1628

Matrix: (soil/water) WATER Leve 1:(low/med) LOW

Instrument ID: 9601C2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	W002	14821	C7770	1725
02	W002D	14822	C7771	1803
03	W054	14823	C7772	1842
04	WFB007	14824	C7773	1920
05	WPB007	14826	C7775	2037
06	WRB007	14825	C7774	1959
07	WTB007	14827	C7776	2116
08	WTB007_MS	14827MS	C7777	2154
09	WTB007_MSD	14827MSD	C7778	2233

YMMENTS:

VOLATILE METHOD BLANK SUMMARY

Lab Name: E & E INC. **Contract:**

Lab Code: EANDE **Case No.:** 9101_557 **SAS No.:** **SDG No.:**

ab File ID: C7847 **Lab Sample ID:** VBLKW2

Date Analyzed: 07/08/91 **Time Analyzed:** 1243

Matrix: (soil/water) WATER **Level:(low/med)** LOW

Instrument ID: 9601C2

THIS METHOD BLANK **APPLIES** TO THE **FOLLOWING SAMPLES, MS AND MSD:**

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	W002DRA	14822RA	C7849	1457
02	W002RA	14821RA	C7848	1418
03	W054RA	14823RA	C7850	1536
04	WFB007RA	14824RA	C7851	1614
05	WPB007RA	14826RA	C7853	1731
06	WRB007RA	14825RA	C7852	1652
07	WTB007RA	14827RA	C7854	1809
08	WTB007MSDRA	14827MSDRA	C7856	1926
09	WTB007MSRA	14827MSRA	C7855	1848

OMMENTS:

1A

UOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW1

Lab Name: E 8 E INC. Contract:

Lab Code: EANOE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample IO: VBLKW1

Sample wt/vo1: 5.0 (g/mL) ML Lab File ID: C7769

Level: (low/med) LOW Date Receiued:

% Moisture: not dec. Oate Analyzed: 07/02/91

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUNO	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	IU
74-83-9	Bromomethane	10	IU
75-01-4	Vinyl Chloride	10	IU
75-00-3	Chloroethane	10	IU
75-09-2	Methylene Chloride	6	I
67-64-1	Acetone	6	IJ
75-15-0	Carbon Disulfide	5	IU
75-35-4	1,1-Dichloroethene	5	IU
75-34-3	1,1-Dichloroethane	5	IU
540-59-0	1,2-Dichloroethene (total)	5	IU
67-66-3	Chloroform	5	IU
107-06-2	1,2-Dichloroethane	5	IU
78-93-3	2-Butanone	10	IU
71-55-6	1,1,1-Trichloroethane	5	IU
56-23-5	Carbon Tetrachloride	5	IU
108-05-4	Vinyl Acetate	10	IU
75-27-4	Bromodichloromethane	5	IU
78-87-5	1,2-Dichloropropane	5	IU
10061-01-5	cis-1,3-Dichloropropene	5	IU
79-01-6	Trichloroethene	5	IU
124-48-1	Dibromochloromethane	5	IU
79-00-5	1,1,2-Trichloroethane	5	IU
71-43-2	Benzene	5	IU
10061-02-6	trans-1,3-Dichloropropene	5	IU
75-25-2	Bromoform	5	IU
108-10-1	4-Methyl-2-Pentanone	10	IU
591-78-6	2-Hexanone	10	IU
127-18-4	Tetrachloroethene	5	IU
79-34-5	1,1,2,2-Tetrachloroethane	5	IU
108-88-3	Toluene	5	IU
108-90-7	Chlorobenzene	5	IU
100-41-4	Ethylbenzene	5	IU
100-42-5	Styrene	5	IU
1330-20-7	Xylene (total)	5	IU

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW1

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: VBLKW1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7769

Level: (low/med) LOW Oats Received:

% Moisture: not dec. Date Analyzed: 07/02/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN OXYGENATED HYDROCARB	27.96	5.0	J

1A

VOLATILE ORGANICS **ANALYSIS** DATA SHEET

EPA SAMPLE NO.

VBLKW2

Lab Name: E & E **INC.** Contract:

Lab **Code:** EANDE **Case** No.: 9101_557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample SO: VBLKW2

Sample wt/vol: 5.0 (g/mL) **ML** Lab File **ID:** C7847

Leve1: (low/med) LOW Date Receiued:

% Moisture: not dec. Date Analyzed: 07/08/91

Column: (pack/cap) **CGP** Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRGTION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	4	13
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIUELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW2

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: VBLKW2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C7847

Level: (low/med) LOW Date Receiued:

% Moisture: not dec. Date Analyzed: 07/08/91

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: E & E INC. Contract:

.ab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	IW002	97	84 *	89	0	1
02	IW002D	97	81 *	89	0	1
03	IW002DRA	93	85 *	92	0	1
04	IW002RA	102	88	98	0	0
05	IW054	94	80 *	97	0	1
06	IW054RA	104	95	106	0	0
07	IWFB007	94	80 *	88	0	1
08	IWFB007RA	99	8 9	99	0	0
09	IWPB007	93	78 *	86	0	1
10	IWPB007RA	95	85 *	93	0	1
11	IWRB007	96	83 *	88	0	1
12	IWRB007RA	92	83 *	90	0	1
13	IWTB007	96	81 *	87	0	1
14	IWTB007RA	99	88	9 7	0	0
15	IWTB007MSDRA	98	88	92	0	0
16	IWTB007MSRA	90	84 *	92	0	1
17	IWTB007_MS	92	78 *	82	0	1
18	IWTB007_MSD	96	80 *	87	0	1
19	IVBLKW1	93	81 *	88	0	1
20	IVBLKW2	100	89	98	0	0

		QC LIMITS
S1 (TOL) =	Toluene-d8	(88-110)
S2 (BFB) =	Bromofluorobenzene	(86-115)
S3 (DCE) =	1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-1 1/87 Rev.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E 8 E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

atrix Spike - EPA Sample No.: WTB007

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	40.3	81	161-1451
Trichloroethene	50.0	0	48.4	97	171-1201
Benzene	50.0	0	50.2	100	176-1271
Toluene	50.0	0	51.7	103	176-1251
Chlorobenzene	50.0	0	48.5	97	175-1301

COHPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC X	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	42.7	85	-5	14	61-145
Trichloroethene	50.0	48.2	96	1	14	171-1201
Benzene	50.0	49.5	99	1	11	176-127
Toluene	50.0	51.8	104	-1	13	176-1251
Chlorobenzene	50.0	48.0	96	1	13	175-1301

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recouery: 0 out of 10 outside limits

COMMENTS:

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOUERY

Lab Name: E & E INC. Contract:

,ab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

atrix Spike - EPA Sample No.: WTB007RA

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC X	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	40.4	81	61-145
Trichloroethene	50.0	0	48.4	97	71-120
Benzene	50.0	0	46.5	93	76-127
Toluene	50.0	0	47.9	96	76-125
Chlorobenzene	50.0	0	49.4	99	175-1301

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	37.0	74	9	14	61-145
Trichloroethene	50.0	45.5	91	6	14	71-120
Benzene	50.0	43.9	88	6	11	76-127
Toluene	50.0	43.6	87	10	13	76-125
Chlorobenzene	50.0	44.9	90	10	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

• Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recouery: 0 out of 10 outside limits

COMMENTS:

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W002

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89899

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether — 1	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS OATA SHEET

EPA SAMPLE NO.

woo2

Lab Name: E & E INC. Cantract:

Lab Code: EANDE Case No. : 9101-557 SAS No. : SDG No, :

Matrix: (soil/water) WATER Lab Sample ID: 14821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9899

Level: (low/med) LOW Date Receiued: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	IU
83-32-9	Acenaphthene	10	IU
51-28-5	2,4-Dinitrophenol	50	IU
100-02-7	4-Nitrophenol	50	IU
132-64-9	Dibenzofuran	10	IU
121-14-2	2,4-Dinitrotoluene	10	IU
84-66-2	Diethylphthalate	10	IU
7005-72-3	4-Chlorophenyl-phenylether	10	IU
86-73-7	Fluorene	10	IU
100-10-6	4-Nitroaniline	50	IU
534-52-1	4,6-Dinitro-2-Methylphenol	50	IU
86-30-6	N-Nitrosodiphenylamine (1)	10	IU
101-55-3	4-Bromophenyl-phenylether	10	IU
118-74-1	Hexachlorobenzene	10	IU
87-86-5	Pentachlorophenol	50	IU
85-01-8	Phenanthrene	10	IU
120-12-7	Anthracene	10	IU
84-74-2	Di-n-Butylphthalate	10	IU
206-44-0	Fluoranthene	10	IU
129-00-0	Pyrene	10	IU
85-68-7	Butylbenzylphthalate	10	IU
91-94-1	3,3'-Dichlorobenzidine	20	IU
56-55-3	Benzo(a)Anthracene	10	IU
218-01-9	Chrysene	10	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	2	IBJ
117-84-0	Di-n-Octyl Phthalate	10	IU
205-99-2	Benzo(b)Fluoranthene	10	IU
207-08-9	Benzo(k)Fluoranthene	10	IU
50-32-8	Benzo(a)Pyrene	10	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	10	IU
53-70-3	Dibenz(a,h)Anthracene	10	IU
191-24-2	Benzo(g,h,i)Perylene	10	IU

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W002

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89899

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 7

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN - Aldol Condensation Product	6.61	160	BJA
2.	UNKNOWN OXYGENATED HYDROCARB	10.15	18	BJ
3.	UNKNOWN	28.15	10	BJ
4.	UNKNOWN	33.07	8.0	13
5.	UNKNOWN	40.43	7.0	J
6.	UNKNOWN	42.74	9.0	J
7.	UNKNOWN	42.98	14	J

6/18/92/4

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W054

Lab Name: E 8 E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14823

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89901

Level: (low/med) LOW Date Receiued: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

CPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIUOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W054

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14823

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89901

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	4	BJ
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1r

SEHIUOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIUELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W054

Lab Name: E 8 E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14823

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 99901

Level: (low/med) LOW Date Receiued: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	IUNKNOWN -Aldo Condensation Product	6.61	180	BJA
2.	IUNKNOWN OXYGENATED HYDROCARB	10.13	23	BJ
3.	IUNKNOWN	16.13	110	IJ
4.	IUNKNOWN CARBOXYLIC ACID	21.38	22	IJ
5.	IUNKNOWN	28.17	8.013	
6.	IUNKNOWN OXYGENATED HYDROCARB	29.13	22	IJ
7.	IUNKNOWN	30.35	16	IJ
8.	IUNKNOWN HYDROCARBON	30.94	23	IJ
9.	IUNKNOWN HYDROCARBON	32.03	34	IJ
10.	IUNKNOWN HYDROCARBON	33.08	33	IJ
11.	IUNKNOWN HYDROCARBON	34.07	25	IJ
12.	IUNKNOWN	35.08	41	IJ
13.	IUNKNOWN	35.72	15	IJ
14.	IUNKNOWN HYDROCARBON	35.99	8.0	IJ
15.	IUNKNOWN	37.50	17	IJ
16.	IUNKNOWN	39.29	39	IJ
17.	IUNKNOWN	41.14	85	IJ
18.	IUNKNOWN	41.58	27	IJ
19.	IUNKNOWN	44.00	260	IJ
20.	IUNKNOWN	44.13	140	IJ

Bfli 8/2/91

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14824

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89902

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14824

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89902

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	BJ
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WFB007

Lab Name: E 8 E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample SO: 14824

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89902

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 9

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN - Aldol Condensation Product	6.63	40	BJA
2.	UNKNOWN OXYGENATED HYDROCARB	10.17	4.0	BJ
3.	UNKNOWN	28.16	11.5	J
4.	UNKNOWN	36.98	200	J
5.	UNKNOWN	37.14	140	J
6.	UNKNOWN	37.30	110	J
7.	UNKNOWN	37.60	130	J
8.	UNKNOWN	43.38	1200	IJ
9.	UNKNOWN	43.93	82	IJ

GM 3/2/91

SEMIUOLATILE ORGANICS ANGLYSIS DATA SHEET

EPA SAMPLE NO.

W002D

Lab Name: E & E INC. Contract:

Lab Code: EANOE Case No.: 9101-557 SAS No.: SDG No.:

Matrix (soil/water) WATER Lab Sample ID: 14822

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89900

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIUOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W002D

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101_557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14822

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89900

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	5u	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	BJ
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

W002D

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14822

Samplo wt/vol: 1000 (g/mL) ML Lab File ID: 89900

Level: (low/med) LOW Date Receiued: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN -Aldo Condensation Product	6.61	190	BJA
2.	UNKNOWN OXYGENATED HYDROCARB	10.17	22	BJ
3.	UNKNOWN	28.15	15	BJ
4.	UNKNOWN	40.78	23	J
5.	UNKNOWN	42.42	11	J

Sfp 9/2/91

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WRB007

ab Name: E & E INC. Contract :

ab Code: EANDE Case No.: 9101_557 SAS No. : SDG No, :

atrix: (soil/water) WATER Lab Sample ID: 14525

ample wt/vol: 1000 (g/mL) ML Lab File ID: 89903

evel: (low/med) LOW Date Received: 06/28/91

Moisture: not dec. dec. Date Extracted: 07/01/91

xtraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

PC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WRB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14825

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9903

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed:. 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	3	BJ
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIUOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WRB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

Matrix: (soil/water) WATER Lab Sample ID: 14825

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 69903

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN -Aldol Condensation Product	6.61	150	BJA
2.	UNKNOWN OXYGENATED HYDROCARB	9.94	5.0	BJ
3.	UNKNOWN OXYGENATED HYDROCARB	10.17	18	BJ
4.	UNKNOWN	28.16	9.0	BJ
5.	UNKNOWN	40.60	10	J
6.	UNKNOWN	41.10	2600 ~~340~~	J
7.	UNKNOWN	42.66	31	J

SEMIVOLATILE METHOO BLANK SUMMARY

Lab Name: E & E INC. Contract:

.ab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

ab File ID: 89895 Lab Sample IO: SBLKW1

Date Extracted: 07/01/91 Extraction:(SepF/Cont/Sonc) SEPF

Oate Analyzed: 07/02/91 Time Analyzed: 1203

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: 70028

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE IO	DATE ANALYZED
01	W002	14821	89899	07/02/91
02	W054	14823	B9901	07/02/91
03	WFB007	14824	89902	07/02/91
04	W002D	14822	89900	07/02/91
05	WRB007	14825	89903	07/02/91
06	WRB007MS	14825MS	89904	07/02/91
07	WRB007MSD	14825MSD	89911	07/03/91

:OMMENTS:

1C
SEMIUOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: SBLKW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9895

Level: (low/med) LOW Date Received:

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: SBLKW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 89895

Level: (low/med) LOW Date Received:

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW1

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: SBLKW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B9895

Level: (low/med) LOW Date Received:

% Moisture: not dec. dec. Date Extracted: 07/01/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/02/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN - Aldo Condensation Product	6.59	170	JA
2.	UNKNOWN OXYGENATED HYDROCARB	7.42	5.0	J
3.	UNKNOWN OXYGENATED HYDROCARB	9.93	6.0	J
4.	UNKNOWN OXYGENATED HYDROCARB	10.23	36	J
5.	UNKNOWN	28.15	16	J

Sjl 8/2/91

2c

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: E & E INC. Contract:

Lab Code: EANOE Case No.: 9101-557 SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	W002	64	61	68	34	44	77	0	0
02	W054	64	63	56	36	46	70	0	0
03	WFB007	66	63	73	35	44	80	0	0
04	W002D	61	57	66	36	46	82	0	0
05	WRB007	64	57	69	31	37	76	0	0
06	WRB007MS	62	56	68	31	32	62	0	0
07	WRB007MSD	85	75	76	39	52	91	0	0
08	SBLKW1	65	59	66	37	46	83	0	0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-114)
S2 (FBP) = 2-Fluorobiphenyl	(43-116)
S3 (TPH) = Terphenyl	(33-141)
S4 (PHL) = Phenol-d5	(10-94)
S5 (2FP) = 2-Fluorophenol	(21-100)
S6 (TBP) = 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate5 diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 9101-557 SAS No.: SDG No. :

atrix Spike - EPA Sample No.: WRB007

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	200	0	60.6	30	112- 861
2-Chlorophenol	200	0	93.6	47	127-1231
1.4-Dichlorobenzene	100	0	57.1	57	136 971
N-Nitroso-di-n-prop.(1)	100	0	75.2	75	141 116
1,2,4-Trichlorobenzene	100	0	62.0	62	139 981
4-Chloro-3-methylphenol	200	0	128	64	123 971
Acenaphthene	100	0	61.1	61	146-1181
4-Nitrophenol	200	U	42.4	21	110- 801
2,4-Dinitrotoluene	100	0	75.6	76	124- 961
Pentachlorophenol	200	0	71.9	36	9-1031
Pyrene	100	U	78.5	78	126-1271

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	73.8	37	-21	42	112- 861
2-Chlorophenol	200	123	62	-28	40	127-1231
1,4-Dichlorobenzene	100	71.1	71	-22	28	136 971
N-Nitroso-di-n-prop.(1)	100	96.1	96	-25	38	141 116
1.2.4-Trichlorobenzene	100	80.0	80	-25	28	139 981
4-Chloro-3-methylphenol	200	156	79	-20	42	123 971
Acenaphthene	100	80.7	81	-28	31	146-1181
4-Nitrophenol	200	89.3	45	-73 *	50	110- 801
2,4-Dinitrotoluene	100	99.2	99 *	-26	38	124- 961
Pentachlorophenol	200	157	79	-74 *	50	9-1031
Pyrene	100	88.1	88	-12	31	126-1271

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W002

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 557 SAS No.: SDC No.:

Matrix: (soil/water) WATER Lab Sample ID: 14521

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/02/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

W054

Lab Name: E & E INC. Contract:

tab Code: EANDE Case No.: 557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14823

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/02/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/17/91

CPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WFB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14324

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/02/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/17/91

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

WRB007

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 557 SAS No.: SDC No.:

Matrix: (soil/water) WATER Lab Sample ID: 14825

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received: 06/28/91

% Moisture: not dec. dec. Date Extracted: 07/02/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/17/91

CPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

4c

PESTICIDE METHOD BLANK SUMMARY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 557 SAS No.: SDC No.:

Lab Sample ID: 01-632-154 Lab File ID:

Matrix:(soil/water) WATER Level:(low/med) LOW

Date Extracted: 07/02/91 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed (1): 07/16/91 Date Analyzed (2): 07/17/91

Time Analyzed (1): 2346 Time Analyzed (2): 2323

Instrument ID (1): V6000_2A Instrument ID (2): V60002B

GC Column ID (1): OV-1 CC Column ID (2): MIXED

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	MSB1	3121-632-154	07/17/91	
02	W002	14821	07/17/91	
03	W002D	14822	07/17/91	
04	W054	14823	07/17/91	07/18/91
05	WFB007	14824	07/17/91	
06	WFB007MS	14824MS	07/17/91	
07	WFB007MSD	14824MSD	07/17/91	
08	WRB007	14825	07/17/91	

COMMENTS:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW1

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 557 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 01 632-154

Sample wt/vol: 1000 (g/mL) ML Lab File ID:

Level: (low/med) LOW Date Received:

% Moisture: not dec. dec. Date Extracted: 07/02/91

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/16/91

CPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATIOM UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 557 SAS No.: SDG No. :

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
01	PBLKW1	94	0
02	MSB1	96	0
03	W002	67	0
04	W002D	64	0
05	W054	60	0
06	WFB007	109	0
07	WRB007	98	0
08	WFB007MS	103	0
09	WFB007MSD	97	0

ADVISORY
QC LIMITS
(24-154)

S1 (DBC) = Dibutlychlorendate

Column to be used to flag recovery values

• Values outside of contract required QC limits

D Surrogates diluted out

FORM II PEST-1

1/87 Rev.

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Mane: E & E INC. Contract:

Lab Code: EANDE Case No. : 557 SAS No. : SDC No. :

Matrix Spike - EPA Sample No.: WFB007

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.200	0	0.189	94	56-123
Heptachlor	0.200	0	0.145	72	40-131
Aldrin	0.200	0	0.125	62	40-120
Dieldrin	0.500	0	0.501	100	52-126
Endrin	0.500	0	0.564	113	56-121
4,4'-DDT	0.500	0	0.488	98	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.200	0.178	89	5	15	56-123
Heptachlor	0.2001	0.145	72	0	20	40-131
Aldrin	0.200	0.133	66	-6	22	140-1201
Dieldrin	0.5001	0.456	91	9	18	52-126
Endrin	0.500	0.518	104	8	21	56-121
4,4'-DDT	0.500	0.461	92	6	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

• Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: E & E INC. Contract:

Lab Code: EANDE Case No.: 557 SAS No: SDC No:

Matrix Spike - EPA Sample No.: MSB1

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.20	0	0.17	85	56-123
Heptachlor	0.20	0	0.13	65	40-131
Aldrin	0.20	0	0.12	60	40-120
Dieldrin	0.50	0	0.45	90	52-126
Endrin	0.50	0	0.47	94	56-121
4,4'-DDT	0.50	0	0.43	86	38-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)					15	56-123
Heptachlor					20	40-131
Aldrin					22	40-120
Dieldrin					18	52-126
Endrin					21	56-121
4,4'-DDT					27	38-127

Column to be used to flag recovery and RPD values with an asterisk

• Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS :

TEST CODE :WALK 1 JOB NUMBER :9101.557

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : ALKALINITY TOTAL UNITS : MG/L CACO3
PARAMETER : Total Alkalinity

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-14821 P27-W002	39		1.0
EE-91-14822 P27-W002D	38		1.0
EE-91-14823 P27-W054	100		1.0
EE-91-14824 P27-WFB007	2.2		1.0

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 :WHARD 1 JOB NUMBER :9101.557

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : TOTAL HARDNESS UNITS : MG/L CACO3
PARAMETER : Total Hardness

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-14821 P27-W002	76		1.0
EE-91-14822 P27-W002D	70		1.0
EE-91-14823 P27-W054	130		1.0
EE-91-14824 P27-WFB007	ND		1.0

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 :WTOC 1 JOB NUMBER :9101.557

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : TOC UNITS : MG/L
PARAMETER : TOC

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-14821 P27-W002	1.9		1.0
EE-91-14822 P27-W002D	3.5		1.0
EE-91-14823 P27-W054	22		1.0
EE-91-14824 P27-WFB007	ND		1.0
HETHOD BLANK	ND		1.0

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 :WPETHY1 JOB NUMBER :9101.557

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : UH-8000 NASP - PHASE I BATCH 2
TEST NAME : TRPE UNITS : MG/L
PARAMETER : **Petroleum Hydrocarbons**

SAMPLE ID	RESULTS	Q	QNT. LIMIT
EE-91-14821 P27-WOO2	ND		1.0
EE-91-14822 P27-WOO2D	ND		1.0
EE-91-14823 P27-WO54	ND		1.0
EE-91-14824 P27-WFBOO7	ND		1.0
EE-91-14825 P27-WRBOO7	ND		1.0
EE-91-14826 P27-WPBOO7	ND		1.0
METHOD BLANK	ND		1.0

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

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

9101.557

(mg/L)

Parameter	E & E Laboratory No. 91-	Original Analysis	Replicate Analysis	Relative Percent Difference (RPD)
Total Alkalinity	14824	2.2	2.2	0
Total Hardness	14824	ND	ND	0
	Batch QC	72	72	0
TOC	14821	1.9	2.1	9.4

QUALITY CONTROL FOR ACCURACY: PERCENT RECOVERY
FOR SPIKED WATER SAMPLES

9101 557

(mg/L)

Parameter	E & E Laboratory No. 91-	Original Value	Amount Added	Amount Determined	Percent Recovery
Total Alkalinity	14824	2.2	110	110	99
TOC	14821	1.9	22	25	103