

**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION
FINAL SAMPLING AND ANALYSIS PLAN
FOR SITE 39 — OAK GROVE CAMPGROUND
NAVAL AIR STATION
PENSACOLA, FLORIDA**

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NAS PENSACOLA
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Prepared for:
**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN)
NAVAL SUPPORT ACTIVITY
NAVAL AIR STATION
PENSACOLA, FLORIDA**



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May 1993

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

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10 INTRODUCTION

As part of the U.S. Navy Comprehensive Long-Term Environmental Action Navy (CLEAN) Program, a Remedial Investigation/Feasibility Study (RI/FS) will be completed by EnSafe/Allen & Hoshall (E/A&H) at Site 39 — Oak Grove Campground, [located at the Naval Air Station Pensacola (NASP), Pensacola, Florida. This Sampling and Analysis Plan (SAP) has been developed by E/A&H for this investigation, as tasked by the Southern Division, U.S. Navy, Naval Facilities Engineering Command (SOUTHDIR)] under Contract [Number N62467-89-D-0318/059.]

Primary references for this SAP include the [*Comprehensive Sampling and Analysis Plan for the Naval Air Station Pensacola (CSAP) (E/A&H, 1993)*], the EPA Region IV *Standard Operating Procedures and Quality Assurance Manual (SOP/QAM)*, and the *Contamination Assessment/Remedial Activities (CA/RA) Investigation Work Plan-Group Q*, Ecology & Environment (E & E 1992a). These documents will be referred to throughout this SAP and should accompany this document during review or use. The investigation of Site 39 will fulfill requirements set forth in the work plan, [this site-specific SAP] and the other references cited above.

The [Site 39 RI] will delineate the nature, magnitude, and extent of any contamination identified during previous investigations, including a soil gas survey conducted November 19, 1992, [as well as any additional contamination identified during the RI]. Data collected during the [1992] soil gas survey performed by E/A&H are presented as Appendix A. Proposed work for the RI has taken into consideration all previous work completed at Site 39. Because Phase I of the work plan has not been completed for Site 39, the current investigation will incorporate measures proposed for both Phase I and Phase II activities. Phase I and Phase II activities proposed in the work plan have been combined and condensed in response to the soil gas survey

to expedite the investigation of Site 39. Additional **intermediate** wells have also been proposed to better assess groundwater conditions.

[Field activities to be performed during the RI include the installation of soil borings and monitoring wells and the collection of soil and groundwater samples.] The analytical tasks will be completed by a **[laboratory that is approved by the Naval Energy and Environmental Support Activity (NEESA) using Contract Laboratory Program (CLP) protocols.]** Field sampling, analytical methods, and reporting will be conducted at EPA Level **[IV]** protocol.

An RI report will be submitted to SOUTHDIV upon completion of the investigative work and laboratory analysis, summarizing the activities, results and conclusions of the investigation. The report will provide supporting data for **[a baseline risk assessment (BRA)]** and a FS to be completed at the site.

This **SAP**, **[in conjunction with the CSAP]**, will provide guidelines for sampling and analytical techniques to be used at the site and to outline proper documentation **procedures** for the investigation.

2.0 BACKGROUND INFORMATION

This section [**describes** briefly] the site, previous work completed at the site, and environmental setting.

2.1 Site 39 Description and History

Site 39 consists of a circular area approximately 300 feet in diameter littered with broken brick, concrete, tile, glass, coal, and **nails**. Within this **area** lies a zone of **stained soils** approximately 150 feet in diameter which extends several inches beneath land surface.

The site is in the southwestern portion of NAS Pensacola, approximately **2,500** feet south of Forrest Sherman Field and 700 feet northwest of the Pensacola Bay shoreline. No groundwater monitoring wells currently exist in the vicinity of Site 39.

2.2 Previous Work Completed

This section [**outlines**] the studies completed to date for **Site 39**. [**More**] comprehensive versions [of **these summaries**] may be found in Section 3, page 3-1 of the work plan and in Appendix A.

The results of two previous studies **are** currently available for Site 39:

- 1990 Soil Sampling Event (E & E 1992b)
- 1992 **soil** Gas Survey [**provided in Appendix A**]

2.3 Environmental Setting

The environmental setting of Site 39, including climatological **data**, habitat/biota survey, and geologic/hydrogeologic setting, has been previously described in **Sections 4** through **7** of the work plan (E & E 1992a).

3.0 PHYSICAL SURVEYS

[The physical surveys for Site 39 will include a contamination **source** survey, physical reconnaissance survey, radiation survey and a habitat and **biota** survey. The surveys **will** be conducted at **EPA** Level II protocol to **collect** screening **data**.]

3.1 Soil ~~Gas~~ Survey

A soil ~~gas~~ survey [was conducted at Site 39 in 1992 by **E/A&H**]. The survey consisted of 15 soil organic vapor (SOV) sampling points. Three [points] were also sampled for groundwater headspace; one was sent to a laboratory for confiiatory analysis. No volatile organic compound (**VOC**)contamination was detected at **any** of the **SOV** sampling points at Site 39, [except for] a very low concentration of tetrachloroethylene(**PCE**) detected at 1.2 µg/L at SOV sample point OG2. The results of the survey *can* be found in **Appendix A**.

[3.2 Contaminant Source Survey

A preliminary survey will be conducted to determine any potential contaminant sources and any present or past waste streams at the site. **This** survey will include a review of previous investigative reports, interviews with present and/or former **NASP** personnel, aerial photo analysis, and a utility survey.

The contaminant source survey **will** identify:

- e The location of previous and current underground and overhead piping and utilities.
- e The nature of past and/or present site activities that may have contributed to site contamination (e.g., types of substances **used** and waste disposal practices).
- e Locations of any known surface spills or **leaks**.
- e Locations of any existing or known historical outfalls.

- The locations and contents of any known present or former underground storage tanks (USTs).

3.3 Physical Reconnaissance Survey

An overall physical reconnaissance survey will be conducted at Site **39** in conjunction with the contaminant source survey. During this survey, a field team **will** visually **inspect** the site to locate surface features and to note surface conditions, stressed vegetation, surface drainage patterns, and stained surfaces. Additionally, areas that are most suitable for the establishment of a grid system base line will be identified during the survey. This grid system will be used during the radiation survey to be performed later **in** the investigation.

Air monitoring equipment such as a photoionization detector or organic vapor analyzer (OVA) will be used during walkovers of the site to screen the area for volatile organic emissions. Areas exhibiting readings above background levels will be flagged and identified on a site map for future reference. All findings of the reconnaissance survey will be mapped in detail and recorded in the field logbook.

3.4 Radiation Survey

Before this survey, a grid system will be established **across** the site. **Initially**, two baseline transects (providing an x and y axis) will be established using a transit survey instrument. Each baseline will be flagged at 50-foot intervals. A **Brunton** compass and tape measure **will** then be used to complete the grid system.

A **preliminary** radiation survey will be conducted at Site **39**. The radiation survey **is** proposed due to the historical use of radioactive materials at **NASP**. A sodium iodide (NaI)

type scintillation detector will be used to collect **readings** at **each** grid node location as described in Section **9.7** of the CSAP],

3.5 Habitat/Biota Survey

[A Phase I habitat/biota survey will be **performed** at Site 39 as outlined in Section 8 of the **CSAP**. Data obtained during the Site 39 investigation **will** also be **used** to help **assess** ecological risk. This **will** help **assess** any onsite terrestrial and aquatic habitats or any surrounding habitats potentially affected by contaminant migration. If **ecological** impacts are suspected at Site 39 after the Phase I survey, **Phase II** sampling **will** be implemented as outlined in Section **8** of the **CSAP**.]

4.0 FIELD SAMPLING PLAN

The field sampling plan details the sampling and field measurement procedures to be used during the RI. The field investigation includes advancing soil borings, installing groundwater monitoring wells, and collecting sediment, soil and groundwater samples using various techniques. Sampling and analytical requirements [are summarized] in Table 4-1.

Table 4-1 Site 39 RI Sampling and Analytical Requirements			
Medium	No. of Samples ^a	Analytical Parameter	[DQO Level]
Soil ^b	18	FSA	[IV]
	(2)	PPS	[IV]
	(3)	ST	[IV]
Groundwater ^c	7	FSA	[IV]
	(2)	PPW	[IV]
TOTAL	25	FSA	
	(2)	PPW	
	(2)	PPS	
	(3)	ST	

Source: Modified from Ecology and Environment, Inc., 1992

Notes:

- a The number of samples shown in parentheses will be analyzed for the additional parameters indicated.
- b Number of soil samples = 6 total boring locations; 6 boring locations x 3 depth intervals = 18.
- c Number of groundwater samples = 7 new onsite wells.

Analytical Parameters

Full Scan = TCL VOCs; TCL base-neutrallacid extractable organic compounds (BNA)s; TCL Analysis pesticides and TCL polychlorinated biphenyls (PCBs); TAL metals (total [i.e., unfiltered] water only); and TCL cyanide.

Physical Parameters

Soil (PPS) = Total phosphorus, nitrate-N, TKN, heterotrophic plate count, total organic carbon (TOC), cation exchange capacity.

Physical Parameters

Soil (ST) = Permeability, porosity, bulk density, particle size, percent moisture, and specific gravity (taken with Shelby tube).

Physical Parameters

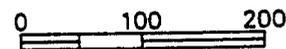
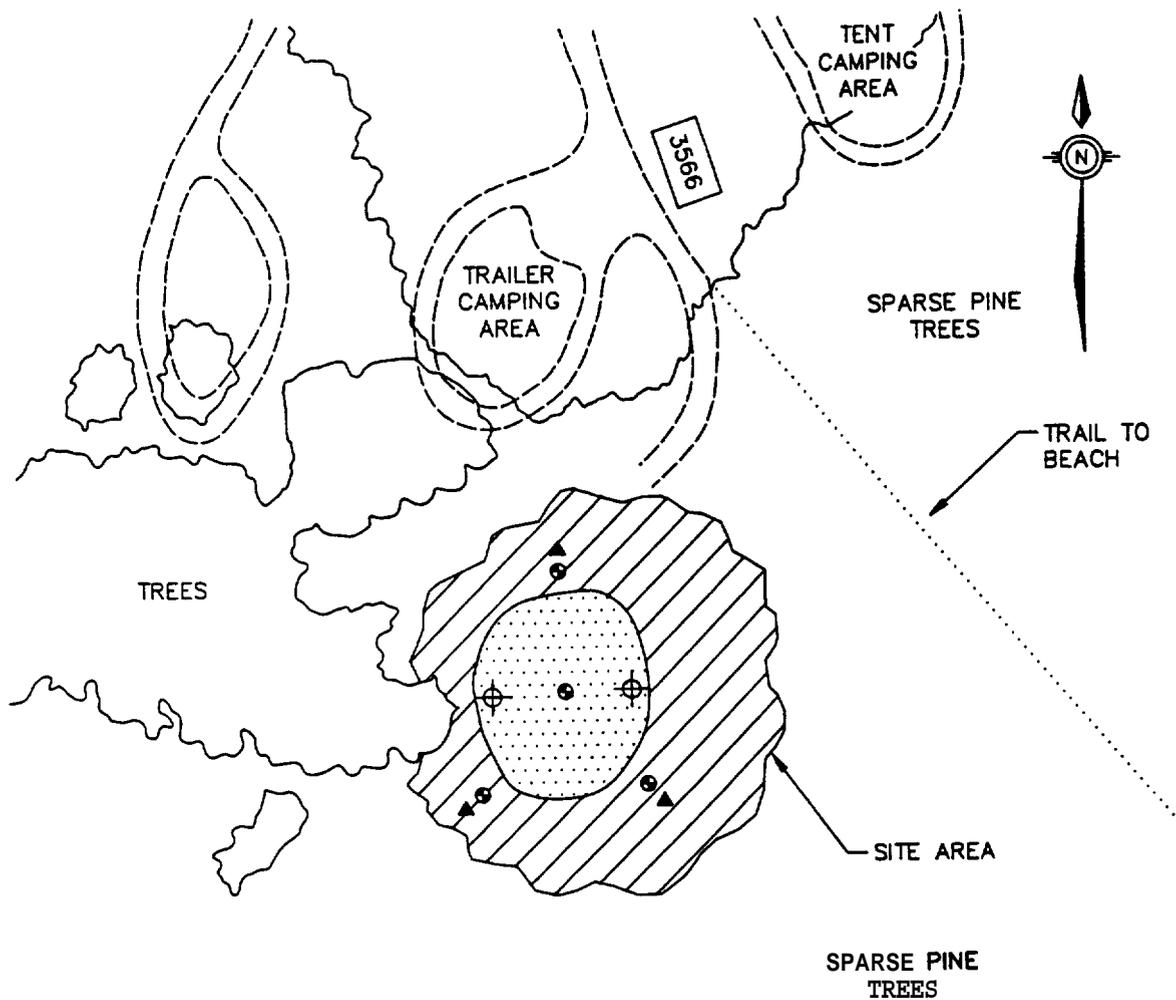
Water (PPW) = 5-day biological oxygen demand (BOD), chemical oxygen demand (COD), hardness, total suspended solids, alkalinity, total phosphorus, nitrate-N, total Kjeldahl nitrogen (TKN), and heterotrophic plate count.

The **EPA** Contract Laboratory Program (CLP), Target Analyte List (TAL), and Target Compound List (TCL) will be used to provide a legally defensible **full spectrum** contaminant analysis. Sediment, soil and groundwater samples will **be** analyzed for the **full** TAL/TCL list, with additional non-CLP analysis also being conducted. Sample locations presented on **Figure 4-1** are not expected to vary. [Any additional sources or contamination previously not detected will be investigated during Phase II by the collection of additional samples **from** any given media, sampling of additional media not included in this site-specific **SAP**, installation of additional monitoring wells to delineate the extent and depth of contaminants, and performance of aquifer response tests to characterize subsurface hydrologic conditions. Before additional field activities begin, a field change request **will** be submitted to the Navy for approval with notification to the **EPA** and **FDER**.]

Organization of the RI analytical parameters has been changed **from** "suites" A through C, proposed in the work plan, to four subdivisions explained below.

Organization of Analytical Parameters:

- **Full** Scan Analysis (FSA) **A full** scan consisting of analysis for TCL volatile organic compounds (VOCs), base/neutral acid extractables (BNAs), polychlorinated biphenyls (PCBs), pesticides, cyanide, and TAL **metals** will be run for all designated sample points. If gamma radiation [above background level is **detected** in a sample during the field screening radiation survey], then a gamma spectropic **analysis** will also be conducted. The **full** scan for total TAL metals in groundwater will [also **be** conducted].
- Physical Parameters, Water (PPW) will be run (in addition **to** the **FSA**) for selected locations where surface water or groundwater is to be sampled. [The **PPW** analyses **will**



LEGEND

- ⊕ PROPOSED SOIL BORING
- PROPOSED SOIL BORING AND SHALLOW MONITORING WELL
- ▲ PROPOSED INTERMEDIATE WELL
- UNPAVED ROAD
- 3566 BUILDING
- ▨ AREA OF SCATTERED DEBRIS
- ⋯ AREA OF STAINED SOILS



RI/FS SAMPLING AND ANALYSIS PLAN (SAP)
 NAS PENSACOLA CAT. II
 PENSACOLA FL.

FIGURE 4-1
 SITE 39

be used to characterize the physical properties of the water at the site and for the completion of the feasibility study.] The parameters include 5-day biological oxygen demand (BOD), chemical oxygen demand (COD), hardness **suspended** solids, **alkalinity**, total phosphorus, nitrate-N, total Kjeldahl nitrogen (TKN), and heterotrophic plate count.

- **Physical Parameters, Soil (PPS)** will be run in addition to the FSA for selected [soil] sample locations. The parameters include total phosphorus, nitrate-N, TKN, heterotrophic plate count, total organic carbon (**TOC**) cation exchange capacity. [These parameters will be used to characterize the physical properties of the soil at the site and for the completion of a feasibility study.]
- **Physical Parameters, Soil (ST)** Shelby tubes will be collected at selected [soil] locations. The analysis will be in addition to the FSA at some locations and will be the **only** sample type at other locations. Shelby tubes will be analyzed for permeability, porosity, [bulk density, particle size, percent moisture, and specific gravity].

The changes in analytical organization were made to conform to CERCLA as opposed to RCRA requirements, for simplification, and to acquire additional information about physical parameters for the upcoming Feasibility Study.

FSA analysis will be conducted for all sample locations, sample intervals, and sample media designated on Figure 4-1. At Site 39, 25 FSA analyses are currently projected.

FSA sampling will be conducted at six locations for soil (see Figure 4-1). For planning purposes, the depth to groundwater is assumed to be 6 feet. All locations will be sampled continuously [(0-1', 1-3', 3-5,' etc.)] from the ground surface to the top of the water table, an

estimated three sample points per location. The total number of **soil** samples for **FSA** analysis is therefore 18. FSA sampling will be conducted at seven wells for groundwater (see Figure 4-1) at the locations outlined below.

Groundwater Sampling Locations:

- Seven proposed onsite monitoring wells would be installed at the locations indicated on Figure 4-1.
- Four shallow wells at upgradient, downgradient, and centrally located positions.
- Three intermediate wells clustered with upgradient and downgradient shallow wells.

One shallow and one intermediate well will be clustered with each of three existing, deep supply wells during the RI for Site 1, and will be sampled as offsite background wells. The analysis will [also] serve as offsite background for the Site 39 RI.

PPW Analysis — **PPW** analysis will be conducted at two groundwater sample locations (Figure 4-1). Groundwater samples will be taken from one shallow **well** and one intermediate well. The specific locations will be determined in the field during FSA sampling, using available physical data and best professional judgement. In this way, field personnel will be able to identify locations that offer the most representative sample, or a sample from a contaminated area.

PPS Analysis — **PPS** analysis will be conducted at two **soil** sample locations (Figure 4-1) determined in the same manner as **PPW** sample locations. Varying soil depth intervals will be selected for **PPS** analysis.

Shelby Tube Analysis — Shelby **tube** samples will be collected at one surficial **soil** sampling location (0.0 to 2.0 feet) and in the low permeability zone in one location, to be determined as

outlined above. Two Shelby tubes will be collected from the low permeability zone during installation of an intermediate well. At this location, ST analysis will not be accompanied by an FSA [unless visual or other field evidence suggests that the sample could potentially serve as a contaminant source for the site].

The matrix spike and matrix spike duplicate samples will be taken every 20th sample regardless of sample matrix or type. This will be accomplished by doubling the volume of all aliquots of the 20th sample.

4.1 Sampling Objectives

[The objective of the field sampling plan is to outline a feasible means of sample collection for chemical and physical analysis.

Objectives of Sampling Plan:

- To delineate the extent of soil, sediment, groundwater, surface water, and air contamination.
- To delineate migration pathways of the contaminants.
- To identify potential receptors of the contaminants.]

4.2 General Sampling Requirements

General sampling requirements applicable to this site will be performed in accordance with Section 2.2 of the CSAP].

4.3 Sample Processing

Sample processing will be performed in accordance with Section 12 of the CSAP].

4.4 Collection of Auxiliary Data

[Auxiliary data collection applicable to the Site **11 RI** is in accordance with Section 9 of the CSAP. Pumping tests will be performed at the site if groundwater remediation is required. Prior to initiating the pumping tests, slug tests will be performed at **selected** monitoring wells. The results of the slug tests **will** be used to design the appropriate pumping tests. Pumping tests will be performed in accordance with the procedures provided in Section **9.6.2** of the CSAP.]

4.5 Specific Sampling Procedures

Sampling procedures proposed for the Site 39 RI [are presented in Sections **4, 6, 7, and 8** of the CSAP] with the following exceptions listed below.

Changes to the Original Work Plan:

- It has been determined that sampling saturated **soil** below the water table at **NAS Pensacola** would not offer any conclusive chemical analysis. Therefore, **soil** sampling below the water table will be limited to the collection of Shelby tubes. **[If** physical evidence of contamination is observed below the water table, a sample will be collected for FSA analyses for characterization and delineation of the source material.] Sampling and analysis at Site 39 will be conducted at the remaining locations designated on Figure **4-1** and in accordance [with the procedures **outlined** in the CSAP].
- **Surface** casing **will** not be **required** for the installation of intermediate wells [because the intermediate monitoring wells will be installed above the **confining unit**]. **[Hollow-**stem augers **will** be used **as** a temporary **casing** during **soil** sample collection and monitoring well installation.] Information regarding practical drilling procedures at **NAS**

Pensacola indicates that surface casing is **only** needed for deep wells **[penetrating the confining unit.]**

- Three additional intermediate wells have also been proposed to better **assess** groundwater conditions.

4.6 Decontamination

Decontamination procedures **[will be performed in accordance with Section 11 of the CSAP].**

4.7 Sample Management

Sample management procedures **[will be performed]** in accordance with **[Section 12 of the CSAP].**

4.8 Sample Custody

Sample custody **[will be maintained in accordance with Section 12.4 of the CSAP].**

4.9 Investigation-Derived Waste

Investigation-derived wastes **[will be handled in accordance with Section 13 of the CSAP].**

4.10 Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) procedures to be **followed** during the **investigation** are in accordance with **[Section 15.2 of the CSAP].**

5.0 ANALYSIS

[The following subsections provide quality assurance objectives for **the** collection of field **measurements** and laboratory analysis.

5.1 Field Measurements

Field measurements will be **collected** at Sites 39 in accordance with Section **10.1** of the CSAP. Field measurements will include pH, temperature, specific conductance, salinity, groundwater level, wellhead survey, and organic vapor detection.

5.2 Laboratory Analysis

Laboratory analysis will be conducted in accordance with Section **10.2** of **the** CSAP],

6.0 QUALITY ASSURANCE PLAN

The Quality Assurance Plan (QAP) [presented in Section **15** of the **CSAP** will be followed throughout the Sites **39 RJ**].

7.0 DATA MANAGEMENT PLAN

The **Data Management Plan (DMP)** [presented in Section 14 of the **CSAP will** be followed during the RI for Site 39].

8.0 REFERENCES

Ecology & Environment, Inc. (1992a). *Contamination Assessment/Remedial Activities Investigation Work Plan—Group Q, Naval Air Station Pensacola, Pensacola, Florida.* **E & E, Inc.** Pensacola, Florida.

Ecology & Environment, Inc. (1992b). *Contamination Assessment/Remedial Activities Investigation, Naval Air Station Pensacola, Pensacola, Florida, Data Summary and Preliminary Scoping Report for Ecological Risk Assessment Work Plans.* **E & E, Inc.:** Pensacola, Florida.

[EnSafe/Allen & Hoshall (1993). *Comprehensive Sampling and Analysis Plan for Naval Air Station Pensacola.* E/A&H: Memphis, Tennessee.]

U. S. Environmental Protection Agency. (1991). *Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual*, U. S. Environmental Protection Agency Region IV, Environmental Services Division, **February 1, 1991.**

9.0 FLORIDA PROFESSIONAL GEOLOGIST SEAL

I have read and approve of the **Final** Sampling and Analysis **Plan** for the Site 39 — **Oak** Grove Campground **and seal** it in accordance with Chapter **492** of the **Florida** Statutes. In sealing this document, I certify that the geological information contained in it is **true to** the best of my knowledge and that the geological methods and procedures included in this plan **are** consistent with currently accepted geological practices.

Name: Brian E. Caldwell
License Number: 1330
State: Florida
Expiration Date: July 31, 1994



Brian E. Caldwell

5-7-93

Date

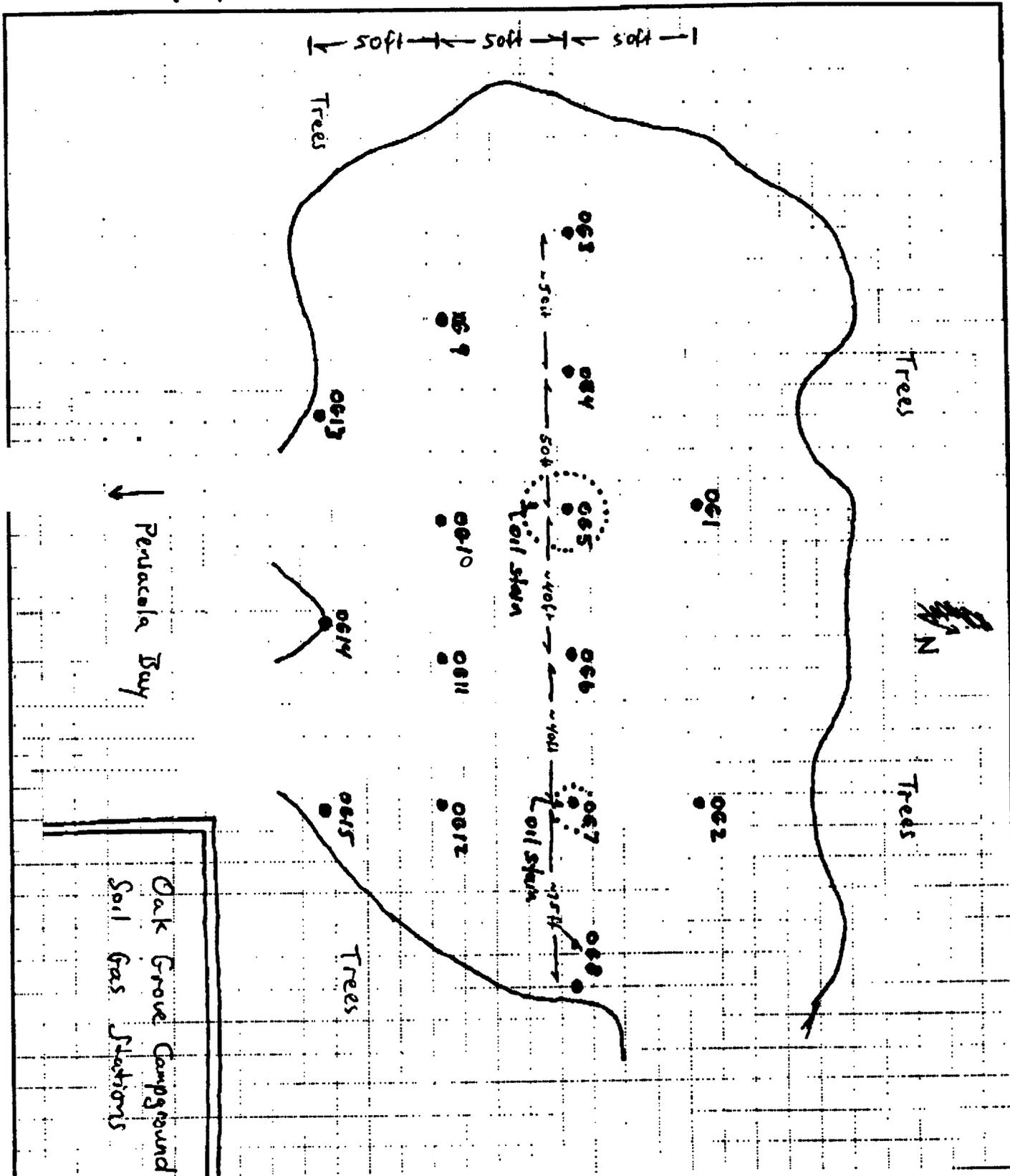
APPENDIX A
SOIL GAS SURVEY RESULTS



Environmental and Safety Designs, Inc.

P.O. BOX 341315, MEMPHIS, TN 38104-1315
(901) 372-7962

JOB _____
SHEET NO. _____ TO _____
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____



INFIELD ANALYSIS RESULTS - GC/FID (UG/L)
PRELIMINARY DATA - DATA HAS NOT UNDERGONE QA PROCBWRES

JOB CODE: MCF(6)
 SITE:
 OPERATOR:
 DATE: 11.19.92

- = NON DETECTS
 * = DETECTOR SATURATED, FINAL REPORT MAY HAVE DIFFERENT VALUE

SPL#	ACETONE	MTBE	MEK	BENZENE	TOLUENE	CHLORO BEN	ETHYL BEN	M&P-XYLENE	O-XYLENE	TOTALS
B17	-	-	-	-	-	-	-	-	-	-
B28	-	-	-	-	-	-	-	-	-	-
B18	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
%	-	-	-	-	-	-	-	-	-	-
4/5 SW	-	-	-	-	-	-	-	-	-	80
6/5 SW	-	-	-	6.9	-	-	-	-	-	52
6/6 W	-	-	-	-	-	-	-	21.6	-	2,204
15/4 W	-	-	-	-	-	-	-	9.5	-	412
11/7 W	-	-	-	-	-	-	-	-	-	-
B2	-	-	-	-	-	-	-	-	-	-
064	-	-	-	-	-	-	-	-	-	-
0615	-	-	-	-	-	-	-	-	-	-
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065	-	-	-	-	-	-	-	-	-	-
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0610	-	-	-	-	-	-	-	-	-	-
066	-	-	-	-	-	-	-	-	-	-

e

INFIELD ANALYSIS RESULTS - GC/FID (UG/L)
PRELIMINARY DATA - DATA HAS NOT UNDERGONE QA PROCEDURES

JOB CODE: MEPA(0), (E)
SITB:
OPERATOR:
DATE: 11-19-92

- = NON DETECTS
* = DETECTOR SATURATED, FINAL REPORT MAY HAVE DIFFERENT VALUE

SPL#	ACETONE	MTBE	MEK	BENZENE	TOLUENE	CHLORO BEN	ETHYL BEN	M&P-XYLENE	O-XYLENE	TOTALS
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062	-	-	-	-	-	-	-	-	-	-
0612	-	-	-	-	-	-	-	-	-	-
061	-	-	-	-	-	-	-	-	-	-
0611	-	-	-	-	-	-	-	-	-	-
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BLW4	-	-	-	-	-	-	-	-	-	-
0614W	-	-	-	-	-	-	-	-	-	-
065W	-	-	-	-	-	-	-	-	-	-
067W	-	-	-	-	-	-	-	-	-	-
B1	-	-	-	-	-	-	-	-	-	-
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TO 19013722454

Dec 07, 1992 05:54PM FROM

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