

N60200.AR.001384  
NAS CECIL FIELD, FL  
5090.3a

SAMPLING AND ANALYSIS REPORT FOR FACILITY 832 BASE REALIGNMENT AND  
CLOSURE ZONE D FLIGHT LINE INDUSTRIAL AREA NAS CECIL FIELD FL  
8/1/1998  
HARDING LAWSON ASSOCIATES

**SAMPLING AND ANALYSIS REPORT**  
**FACILITY 832**  
**BASE REALIGNMENT AND CLOSURE**  
**ZONE D, FLIGHTLINE INDUSTRIAL AREA**

**NAVAL AIR STATION CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

**Unit Identification Code: N60200**

**Contract No.: N62467-89-D-0317/090**

**Prepared by:**

**Harding Lawson Associates**  
**2590 Executive Center Circle, East**  
**Tallahassee, Florida 32301**

**Prepared for:**

**Department of the Navy, Southern Division**  
**Naval Facilities Engineering Command**  
**2155 Eagle Drive**  
**North Charleston, South Carolina 29419**

**David Porter, Code 18B2, BRAC Environmental Coordinator**

**August 1998**

**Revision 0.0**

TABLE OF CONTENTS

Sampling and Analysis Report  
Facility 832  
Base Realignment and Closure  
Zone D, Flightline Industrial Area  
Naval Air Station Cecil Field, Jacksonville, Florida

<u>Chapter</u>	<u>Title</u>	<u>Page No.</u>
1.0	INTRODUCTION . . . . .	1
2.0	PHASE II INVESTIGATION . . . . .	1
3.0	PRELIMINARY RISK EVALUATION . . . . .	3
4.0	CONCLUSIONS AND RECOMMENDATIONS . . . . .	3
	REFERENCES . . . . .	4

LIST OF FIGURES

<u>Figure</u>	<u>Title</u>	<u>Page No.</u>
1	Facility 832, Flight Simulator Training Building, Sample Location Plan . . . . .	2

## GLOSSARY

ABB-ES	ABB Environmental Services, Inc
ACM	asbestos-containing materials
EBS	environmental baseline survey
HLA	Harding Lawson Associates
NAS	Naval Air Station
PCB	polychlorinated biphenyl
ppm	parts per million

## 1.0 INTRODUCTION

Harding Lawson Associates (HLA), under contract to Southern Division, Naval Facilities Engineering Command, has completed the Phase II Sampling and Analysis program for Facility 832 at Naval Air Station (NAS) Cecil Field. This report summarizes the related field operations, results, conclusions, and recommendations of the Phase II investigation.

Facility 832 is located northwest of the intersection of 2nd Street and "A" Avenue (Figure 1). The facility is referred to as the Flight Simulator Training Building in the Environmental Baseline Survey (EBS) Report (ABB Environmental Services, Inc. [ABB-ES], 1994a).

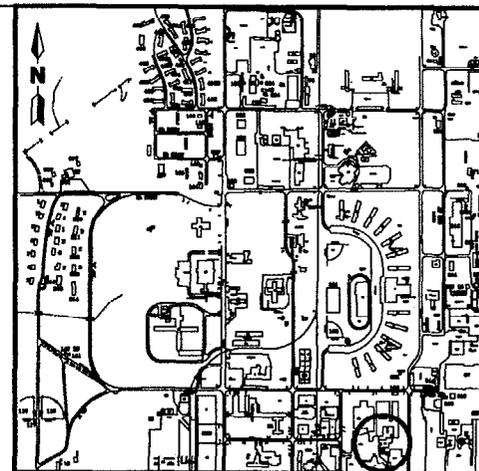
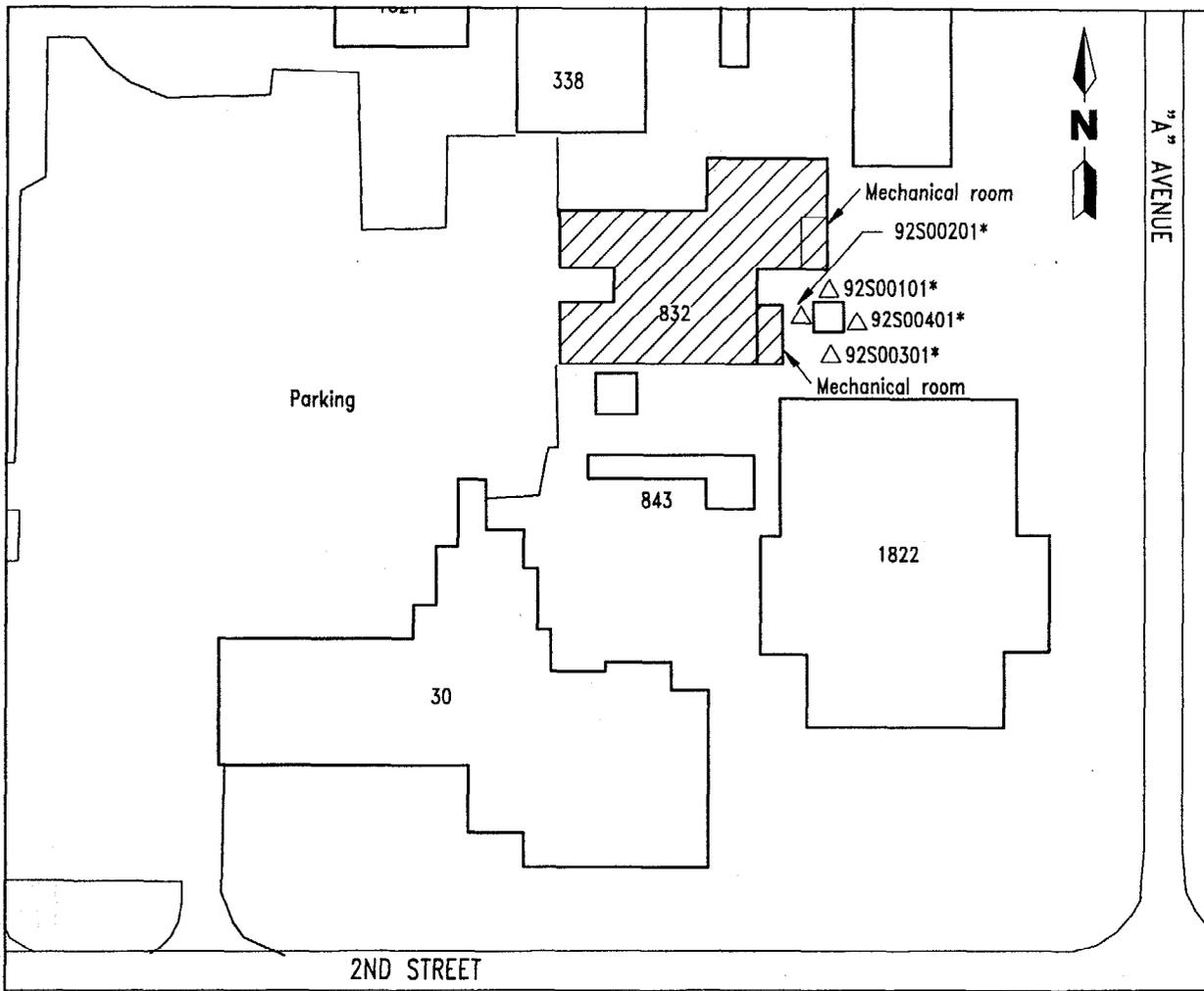
The EBS reported a tar-like residue observed beneath a transformer containing oil with a polychlorinated biphenyl (PCB) content in excess of 500 parts per million (ppm). The transformer is located east of the building. The tar-like residue was observed during a December 1993 site visit. The 1993 NAS Cecil Field Oil-Filled Electrical Distribution Inventory indicates that the PCB transformers at Facility 832 have been replaced. No tar-like material was present and no indications of leakage were observed during a reconnaissance conducted by HLA (then ABB-ES) on January 4, 1996.

Asbestos containing materials (ACMs) and lead-based paint were also cited as potential environmental concerns in the EBS Report. The Asbestos Management Plan (KEMRON, 1996) indicates that ACM joint packing material is present in heating and air conditioning equipment at Facility 832. According to the report, all ACM appears to be in fair condition and may be maintained under an operation and management plan until further damage occurs or until renovation impacts the material. No lead-based paint evaluation has been conducted for Facility 832.

A sampling and analysis outline for the assessment of surface soil in the area surrounding the transformer on the east side of Facility 832 was prepared by HLA (then ABB-ES) and approved by the Base Realignment and Closure cleanup team (ABB-ES, 1996). The results of the sampling and analysis program are discussed in Sections 2.0 and 3.0.

## 2.0 PHASE II INVESTIGATION

This Phase II investigation included the collection and analysis of four surface soil samples from the area surrounding the transformer. The samples were collected from 0 to 1 foot below land surface. Field activities were undertaken in general conformance with the Project Operations Plan (ABB-ES, 1994b). The soil samples were analyzed on site using immunoassay methods (D TECH PCB soil test Kit; Item #TK-1002-1) capable of detecting PCBs at concentrations of 0.5 ppm or greater. A site plan indicating the location of the surface soil samples is presented on Figure 1. Sample results are discussed in Section 3.0.



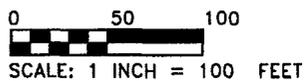
**GENERAL LOCATION PLAN**  
Scale: 1 inch = 2,000 feet

**LEGEND**

- 92S00101\* Surface soil sample location and designation
- △
- \* No polychlorinated biphenyls detected
- NAS Naval Air Station

**NOTE:**

Values presented exceed NAS Cecil Field background data set values and State of Florida Cleanup Target Levels (NAS Cecil Field background data set values are applicable to inorganic analytes only).



**FIGURE 1**  
**FACILITY 832**  
**FLIGHT SIMULATOR TRAINING BUILDING**  
**SAMPLE LOCATION PLAN**



**SAMPLING AND ANALYSIS REPORT**

**NAVAL AIR STATION CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

### 3.0 PRELIMINARY RISK EVALUATION

The results of the analyses for PCBs in each of the four surface soil samples were negative; therefore, no preliminary risk evaluation is required.

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information obtained for this assessment, PCBs are not present in the surface soil surrounding the transformer on the east side of Facility 832 and, therefore, there is no associated hazard to human health or the environment. ACM was identified in the building, and should be managed in a manner which prevents human exposure. Based on the age of the Facility, it is likely to have been painted with a lead-based coating. Department of Defense policy does not require evaluation of lead-based paint in non-residential facilities. No other environmental concerns have been identified for this facility.

Evidence of a release from a transformer east of Facility 832 was reported in the EBS Report. Although no PCBs were detected in surface soil samples collected, the color for Facility 832 should be reclassified to 3/Light Green, indicating that a release has occurred, but the level of contaminants do not require a removal action.

No remedial action or further evaluation is recommended for Facility 832. Appropriate site operation and management procedures should be undertaken in order to ensure that current and future site activities do not result in release of hazardous substances to the environment. A full disclosure of all environmental conditions and land-use restrictions should be incorporated into any documentation prepared in support of a sale or lease of real property including Facility 832.

#### REFERENCES

ABB Environmental Services, Inc. (ABB-ES). 1994a. *Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (November).

ABB-ES. 1994b. *Project Operations Plan for Cecil Field and Health and Safety Plan*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (December).

Kemron. 1996. *Final Asbestos Management Plan, Naval Air Station Cecil Field Jacksonville, Florida*. Prepared for ABB-ES, Orange Park, Florida.