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NAS CECIL FIELD, FL  
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SAMPLING AND ANALYSIS REPORT FOR FACILITY 82 BASE REALIGNMENT AND  
CLOSURE ZONE D INDUSTRIAL AND FLIGHT LINE AREA REVISION 1 NAS CECIL FIELD  
FL  
6/1/1999  
HARDING LAWSON ASSOCIATES

**SAMPLING AND ANALYSIS REPORT**  
**FACILITY 82**  
**BASE REALIGNMENT AND CLOSURE**  
**ZONE D, INDUSTRIAL AND FLIGHT LINE AREA**

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

**Unit Identification Code N60200**

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## GLOSSARY

|        |                                  |
|--------|----------------------------------|
| ABB-ES | ABB Environmental Services, Inc. |
| ACM    | asbestos-containing material     |
| BRAC   | Base Realignment and Closure     |
| EBS    | environmental baseline survey    |
| HLA    | Harding Lawson Associates        |
| IR     | Installation Restoration         |
| NAS    | Naval Air Station                |
| PCB    | polychlorinated biphenyl         |
| UST    | underground storage tank         |

## 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 82 at Naval Air Station (NAS) Cecil Field. This report summarizes the related field operations, results, conclusions, and recommendations.

Facility 82 is referred to as the air traffic control tower and disaster preparedness center, in the Base Realignment and Closure (BRAC) NAS Cecil Field Environmental Baseline Survey Report (EBS) (ABB Environmental Services, Inc. [ABB-ES], 1994a). It houses the base disaster preparedness team, air traffic control tower, base Commanding Officer's office, weather center, and photography laboratory. Facility 82 is located on the northwest side of the intersection of the north to south and east to west runways (Figure 1), in an area currently designated as Installation Restoration (IR) Site 36/37. A remedial investigation of groundwater contamination within IR Site 36/37 is currently in progress.

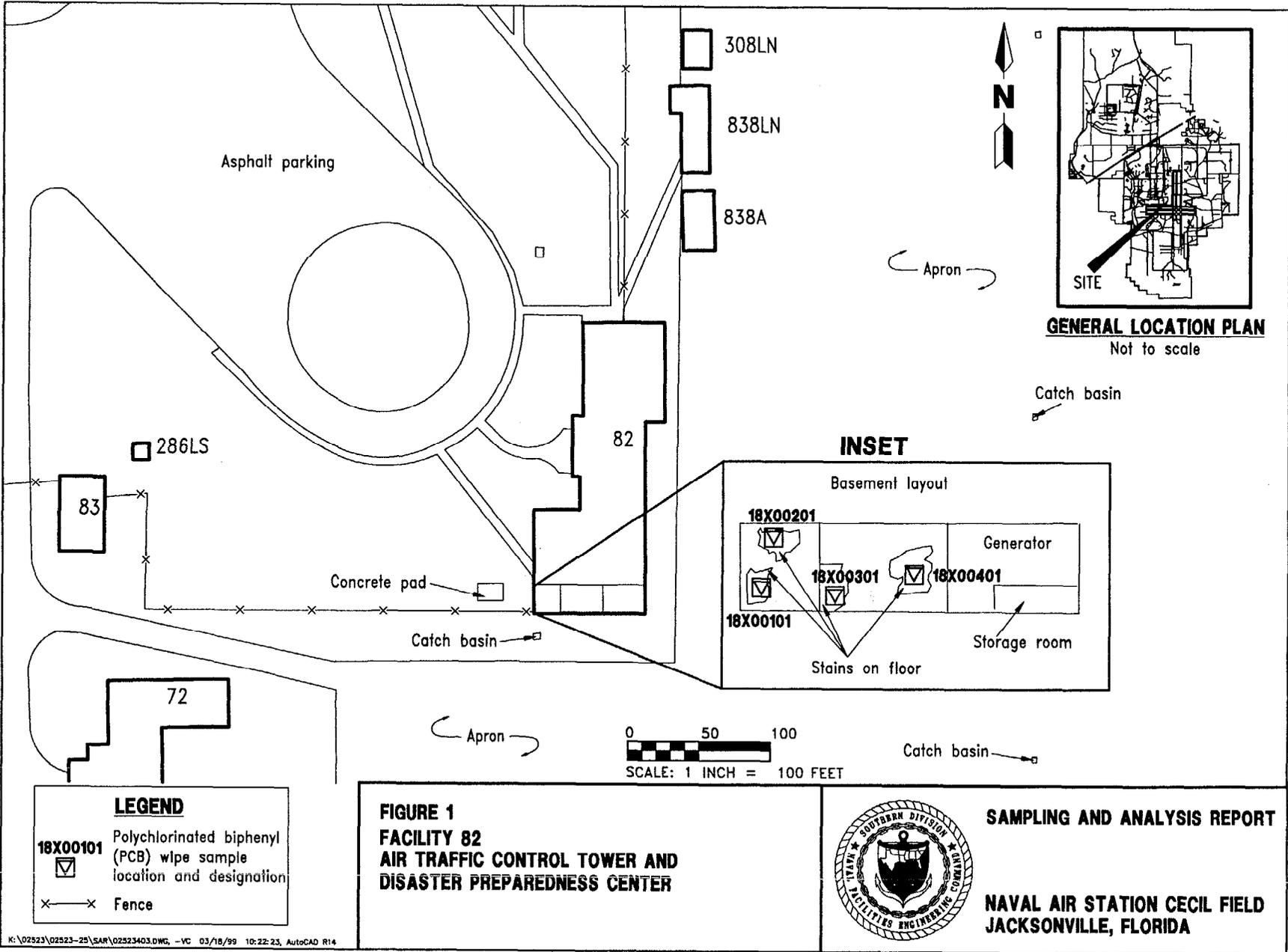
Facility 82 was color-coded Grey in the EBS because of the presence of friable asbestos construction materials (ACM), polychlorinated biphenyl (PCB) containing electrical equipment, and underground storage tanks (USTs) associated with the building. The Asbestos Management Plan (Kemron, 1995), indicates that all ACM observed within Facility 82 is in fair condition, and may be managed under an operations and maintenance plan. Environmental concerns related to petroleum storage have been evaluated separately. A UST located near the southeast corner of Facility 82 was removed in June 1997. A confirmatory sampling report indicated that the former UST site was not impacted, and included a recommendation for no further action. A UST located near the northwest corner of Facility 82 was also removed. Groundwater contaminants (1 and 2 methylnaphthalene) were detected at concentrations in excess of Florida Groundwater Cleanup Target Levels at this location. A confirmatory sampling report prepared for this UST recommends additional investigation.

Oily stains observed on concrete surfaces in areas formerly occupied by oil-filled electrical equipment were identified as an environmental concern for the property. A review of Public Works Center records indicates there are 8 oil-filled electrical units associated with Facility 82, and none of the units contain more than 10 parts per million PCB in the dielectric fluid.

A Sampling and Analysis Outline for the assessment of the stained concrete surfaces was prepared by HLA (then ABB-ES) and approved by the BRAC cleanup team (ABB-ES, 1995b). The results of the sampling and analysis program are discussed in Sections 2.0 and 3.0.

## 2.0 PHASE II INVESTIGATION

Four surface wipe samples were collected from stained concrete surfaces inside Facility 82. The samples were analyzed for the full Contract Laboratory Program suite of target compound list PCBs. A site plan with sample locations is presented on Figure 1. Field activities were undertaken in general conformance with the Project Operations Plan (ABB-ES, 1994b).



### 3.0 PRELIMINARY RISK EVALUATION

The surface wipe samples collected from the stained concrete surfaces in Facility 82 contained up to 410 micrograms of Aroclor-1260. No other PCB compounds were detected. A residential human health exposure scenario is not applicable to a stained concrete surface. Therefore, no preliminary risk evaluation was conducted for this site. Analytical results are presented in Appendix A

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

PCBs have been detected on stained concrete surfaces in the electrical equipment room at the south end of Facility 82, and petroleum contaminated groundwater has been detected in association with a former UST on the north side of Facility 82. Additional assessment of the petroleum contamination is recommended. The stained concrete appears to be from an incidental release of dielectric fluid. Prior to lease or transfer, the stained concrete surfaces should be decontaminated to a non-detect level or removed, during closure procedures for Facility 82. ACM should be managed under an operations and maintenance plan, and should not be damaged or disturbed. The facility is located within an active IR Site, but is not within an area of groundwater contamination. Therefore, the color classification for Facility 82 should be changed to 2/Blue (Yellow) to indicate that a petroleum release has been documented and additional assessment is required.

### 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 (SOUTHNAVFACENGCOCM), North Charleston, South Carolina (December).
- ABB-ES. 1994b. *Project Operations Plan for Cecil Field and Health and Safety Plan*. Prepared for SOUTHNAVFACENGCOCM, North Charleston, South Carolina (November).
- ABB-ES. 1995. *Sampling and Analysis Outline, Facility 82, Base Realignment and Closure, Zone D, Industrial and Flightline Area, Group IV, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOCM, North Charleston, South Carolina (February).
- Kemron Environmental Services, Inc. 1995. *Final Asbestos Management Plan, NAS Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOCM, North Charleston, South Carolina (October).

**APPENDIX A**

**LABORATORY ANALYTICAL DATA**

NAS CECIL FIELD -- FACILITY 82  
 PCB WIPE ANALYTICAL DATA -- REQUEST NO. 10837

|                    |            |            |            |            |
|--------------------|------------|------------|------------|------------|
| Lab Sample Number: | A6B1201080 | A6B1201080 | A6B1201080 | A6B1201080 |
| Site               | CECILBRAC2 | CECILBRAC2 | CECILBRAC2 | CECILBRAC2 |
| Locator            | 18X00101   | 18X00201   | 18X00301   | 18X00401   |
| Collect Date:      | 09-FEB-96  | 09-FEB-96  | 09-FEB-96  | 09-FEB-96  |

|              | VALUE | QUAL | UNITS | DL |
|--------------|-------|------|-------|----|-------|------|-------|----|-------|------|-------|----|-------|------|-------|----|
| PCBs         |       |      |       |    |       |      |       |    |       |      |       |    |       |      |       |    |
| Aroclor-1016 | 1     | U    | UG    | 1  | 1     | U    | UG    | 1  | 16    | U    | UG    | 16 | 80    | U    | UG    | 80 |
| Aroclor-1221 | 1     | U    | UG    | 1  | 1     | U    | UG    | 1  | 16    | U    | UG    | 16 | 80    | U    | UG    | 80 |
| Aroclor-1232 | 1     | U    | UG    | 1  | 1     | U    | UG    | 1  | 16    | U    | UG    | 16 | 80    | U    | UG    | 80 |
| Aroclor-1242 | 1     | U    | UG    | 1  | 1     | U    | UG    | 1  | 16    | U    | UG    | 16 | 80    | U    | UG    | 80 |
| Aroclor-1248 | 1     | U    | UG    | 1  | 1     | U    | UG    | 1  | 16    | U    | UG    | 16 | 80    | U    | UG    | 80 |
| Aroclor-1254 | 1     | U    | UG    | 1  | 1     | U    | UG    | 1  | 16    | U    | UG    | 16 | 80    | U    | UG    | 80 |
| Aroclor-1260 | 1.4   |      | UG    | 1  | 1     | U    | UG    | 1  | 26    |      | UG    | 16 | 410   |      | UG    | 80 |

U = NOT DETECTED J = ESTIMATED VALUE  
 UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED  
 R = RESULT IS REJECTED AND UNUSABLE