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EXECUTION PLAN

For

SOIL REMOVAL AT  
POTENTIAL SOURCE OF CONTAMINATION 38  
TORPEDO REWORK FACILITY

NAVAL AIR STATION JACKSONVILLE, FLORIDA

Prepared for

DEPARTMENT OF THE NAVY  
SOUTHERN DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
Under Contract No. N62467-93-D-0936

Prepared by

BECHTEL ENVIRONMENTAL, INC.  
OAK RIDGE, TENNESSEE

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REVISION 1

Bechtel Job No. 22567

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|-----------|-----------------------------|----------------|
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## 1.0 INTRODUCTION

Potential Source of Contamination (PSC) 38 is located in the Magazine Area of Naval Air Station (NAS) Jacksonville and is identified as the Torpedo Rework Facility (see Figure 1-1). Activities at PSC 38 include the repair and cleaning of propulsion systems, addition of fuel to torpedoes, and inspection of torpedoes (ABB-ES 1997).

A site screening investigation was performed at PSC 38 in 1996. Detections of volatile organic compounds, semi-volatile organic compounds, and pesticides were well below Florida Department of Environmental Protection (FDEP) soil cleanup goals (SCGs) or risk-based concentrations (RBCs). However, metals concentrations exceeded background concentrations, and concentrations of antimony, arsenic, beryllium, cadmium, chromium, lead, and zinc near the gravel drain adjacent to Building 330 exceeded their respective SCGs and/or RBCs. Subsequent site screening performed in 1997 determined that lead concentrations in the north gravel pit adjacent to Building 327 exceeded its SCG.

The goals of the removal action at PSC 38 are to contain and control the contamination, and to reduce the risks posed by the contaminants of concern to acceptable levels. The intent of this Execution Plan is to perform a source removal action at two potential source areas of contaminated soil located in PSC 38. The actions described in this Execution Plan are being implemented to provide:

- Excavation of contaminated surface soil and subsurface soil from within one gravel pit and one gravel drain at PSC 38
- Removal and disposal of concrete pit/drain walls
- Disposal of excavated soils at an off-site landfill
- Backfill of the excavations
- Site restoration.

## 2.0 PRE-REMOVAL ACTIVITIES

Prior to beginning any intrusive work, the boundaries of the planned excavations will be marked at the site. Underground utilities will be identified as appropriate. The Bechtel site superintendent or his designated representative will perform a walk-through of the area to observe readily visible potential construction interferences. NAS Jacksonville personnel will be consulted for as-built locations of pipes, utilities, and other potential obstructions. Obstructions noted will be marked either through the use of colored flags or paint. Appropriate utility clearance personnel will be contacted to participate in this phase of the project. No excavation or intrusive work will be initiated until the subgrade interference survey is complete. Areas that cannot be cleared for equipment excavation will be hand excavated.

Current site conditions at PSC 38 do not require clearing, and clearing will not be performed.

Figure modified from Fig. 4-13, *Site Screening Work Plan, Sampling and Analysis Plan for Potential Sources of Contamination, Naval Air Station Jacksonville, Jacksonville, FL*, ABB-ES, July 1997.



EXECUTION PLAN  
PSC 38  
NAS JACKSONVILLE, FL

LOCATION OF PSC 38  
FIGURE 1-1

### 3.0 REMOVAL ACTIVITIES

This section of the document provides guidance and direction to the Bechtel field crew during the implementation of removal activities for PSC 38.

#### 3.1 SOIL EXCAVATION

Contaminated surface and subsurface soils will be excavated from one of two gravel pits (i.e., the north gravel pit located near Building 327) and a gravel drain at PSC 38 (refer to Figure 1-1). The gravel pit and gravel drain are each approximately three feet wide by four feet long. Depth of each is estimated to be approximately four feet. Excavation will be performed to remove the contents and the concrete walls of the pit and drain for disposal. Excavation will be conducted to a depth of one foot below the vertical extent of the manmade structures. The excavated soils will be placed in drums at the site. One composite sample each from the pit and drain material will be collected for characterization prior to disposal, as summarized in Section 6.0, Sampling and Analysis.

The excavation areas will be backfilled with clean materials to near the original grade in accordance with Navy RAC Technical Specification 22567-001-SP000-006, Uncontaminated Earthwork.

During excavation activities, surface water will be directed away from the excavation area by diversion ditches, dams, dikes, or grading, if necessary. Sediment and erosion control measures, such as the installation of silt fences or hay bale dikes, will be implemented during work activities at areas where the potential for erosion is present to prevent sediments from being transported out of the work area.

#### 3.2 SITE RESTORATION

All equipment and material will be demobilized from the site. The site will be returned to pre-construction condition to the extent practicable and all disturbed areas will be seeded.

### 4.0 QUALITY CONTROL

Appropriate Quality Control (QC) criteria are developed and included in the site-specific addendum to the Quality Control Program Plan (QCP). This site-specific plan, called the Quality Control Program Plan Addendum (QCPA), is based on the Navy-approved QCP for the basic contract. The QCPA will be issued under separate cover to the Navy for approval. Bechtel will implement, maintain, and comply with the Navy-approved basic contract QCP and the site-specific QCPA, and will provide a trained, qualified Quality Assurance (QA) Representative to perform the function of QA.

## 5.0 WASTE MANAGEMENT

There are several waste management activities anticipated during this removal action. All wastes generated during this removal action will be managed in accordance with applicable federal and state laws and regulations, as well as the *Environmental Response Action Contract Waste Management Plan* (WMP) (BEI 1995).

### 5.1 HAZARDOUS WASTES

Materials excavated from the gravel pit and gravel drain during activities associated with this removal action are anticipated to be hazardous wastes. Hazardous wastes identified during the activities described in this Execution Plan will be managed in accordance with RCRA (40 CFR Part 260) and related federal and state regulations. Unless decontamination procedures and subsequent analytical results can demonstrate non-hazardous characteristics, all wastes that have been in contact with potentially hazardous wastes generated on this project will be classified as potentially hazardous.

If it is determined that hazardous wastes are generated or discovered during this removal action, Bechtel will provide all information necessary for the Hazardous Waste Manager, NAS Jacksonville, to characterize the wastes. The selected disposal facility's permit constraints will determine the analyses required for characterization and approval prior to disposal. Samples for each waste stream will be collected by Bechtel in accordance with Navy RAC project procedures and the results will be forwarded to the Hazardous Waste Manager, NAS Jacksonville. The Hazardous Waste Manager will then complete characterization of the wastes.

Bechtel will coordinate disposal of hazardous wastes with PWC, NAS Jacksonville. Disposal manifesting and record keeping of hazardous wastes will be performed by the Navy, including notification to the EPA Region IV off-site coordinator if required. Prior to disposal, Bechtel will conduct weekly inspections of on-site accumulations of hazardous wastes and will submit inspection reports to the Hazardous Waste Manager, NAS Jacksonville.

### 5.2 NON-HAZARDOUS WASTES

Several non-hazardous wastes, such as general construction waste and decontaminated personal protective equipment (PPE), will be generated during this project. Non-hazardous construction waste generated during the remedial activities will be collected and stored in DOT-approved drums and containers. PPE that has been decontaminated will be disposed of by placing the materials in double plastic garbage bags. Non-hazardous solid waste that is generated as a result of mobilization, demobilization, and construction activities at the site will be properly disposed of at a Subtitle D or construction rubble landfill as appropriate, or as directed by the Navy. Bechtel will be responsible for the disposal of all non-hazardous wastes related to this project.

All personnel equipment will be decontaminated on site using sealable tubs or 5-gallon buckets. The volume of water generated during decontamination activities is anticipated to be small. The decontamination water will be generated primarily during cleaning of equipment involved with

the removal action. Any generated decontamination water will be collected in a 55-gallon drum. Drummed decontamination water will be managed as described in Section 5.1. Under no circumstances will excess cleaning solutions (e.g., isopropanol) which are not contaminated or spent be added to decontamination water. In addition, no solvents that could generate a hazardous waste will be used or discharged at this site. All unused decontamination solutions will be removed from the site at the time of demobilization.

## 6.0 SAMPLING AND ANALYSIS

Bechtel's approved Comprehensive Quality Assurance Plan (CompQAP #940316) is presently on file with the FDEP. Bechtel Navy RAC project procedures based on EPA Region IV sample collection guidelines will be used throughout the data collection phase of this project. Samples identified in this section will be collected in accordance with project procedures. Analysis of these samples will be in accordance with the EPA criteria for the defined method or by the procedure identified as appropriate.

One composite sample each for the materials removed from the gravel drain and the gravel sump will be collected for analysis as indicated in Table 6-1.

Decontamination water will be sampled as indicated in Table 6-1, or as required by the Navy. The decontamination water will be temporarily containerized in 55-gallon drums.

## 7.0 SAFETY AND HEALTH PLAN

A Program Safety and Health Plan (PSHP) defines the policies for the Navy RAC project. A Site Safety and Health Plan (SSHP) has been prepared for each of the Navy RAC bases. An addendum to the SSHP, which will be provided separately to the Navy for approval, will define task-specific requirements for the remediation activities at PSC 38 that are described in this Execution Plan.

## 8.0 REFERENCES

ABB Environmental Services, Inc. (ABB-ES) 1997. *Site Screening Work Plan, Sampling and Analysis Plan for Potential Sources of Contamination, Naval Air Station Jacksonville, Jacksonville, Florida*. Prepared for the Department of the Navy, Southern Division, Naval Facilities Engineering Command. July, 1997.

BEI 1995. *Environmental Response Action Contract Waste Management Plan*. Prepared for the Department of the Navy, Southern Division, Naval Facilities Engineering Command. September 1995.

**Table 6-1  
Sampling and Analysis Requirements**

| Location ID                        | Analytical Parameters | Frequency   | Analytical Method or Instrument | Analytical Support Level | Sample Matrix |        | Total Estimated Samples (per Event) |           |            |
|------------------------------------|-----------------------|---|---------------------------------|--------------------------|---------------|--------|-------------------------------------|-----------|------------|
|                                    |                       |   |                                 |                          | Solid         | Liquid | Sample                              | Duplicate | Trip Blank |
| Gravel Drain                       | TCLP Metals           | Prior to Disposal   | EPA 1311/<br>6010/7471          | C                        | X             |        | 1                                   | NA        | NA         |
| North Gravel Pit                   | TCLP Metals           | Prior to Disposal   | EPA 1311/<br>6010/7471          | C                        | X             |        | 1                                   | NA        | NA         |
| Decontamination Water Storage Area | Metals                | As required for disposal of collected decontamination water | EPA 6000 series/7000            | C                        |               | X      | 1                                   | NA        | NA         |
|                                    | pH                    |   | EPA 9045                        | C                        |               | X      | 1                                   | NA        | NA         |
|                                    | TSS                   |   | EPA 160.2                       | C                        |               | X      | 1                                   | NA        | NA         |

Notes: TCLP = Toxicity Characteristic Leaching Procedure  
TSS = total suspended solids  
NA = not applicable