

N60200.AR.001831
NAS CECIL FIELD, FL
5090.3a

SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF CONTAMINATION
43 BUILDING 617 NAS CECIL FIELD FL
4/14/1999
TETRA TECH NUS INC

**Sampling and Analysis Work Plan
PSC 43, Building 617
Naval Air Station Cecil Field
Jacksonville, Florida**

April 14, 1999

Sampling and analysis of surface soils is proposed for PSC 43, Building 617 as shown in Figure A. Building 617 housed the Bomb Dummy Unit and Aviation Weapons Support equipment. Sampling and analysis is being conducted to delineate the industrial and residential soil excavation boundaries for polycyclic aromatic hydrocarbons (PAHs), primarily benzo(a)pyrene, to the north of the building where previous sampling identified contaminants as shown in Figure B.

The samples will be collected in the area of the known contamination in an attempt to delineate the contamination. Samples will be analyzed for Polycyclic Aromatic Hydrocarbons (PAHs) per the February 11, 1999 Base Realignment and Closure Team (BCT) meeting (Minutes Ref. No. 821).

A total of 33 surface soil samples will be collected during Phase I from the locations identified on Figure A. The soil samples to be collected are described below.

- The samples will be collected in a grid pattern, approximately 30' X 30', north of Building 617 and labeled CEF-P43-SS-001 through CEF-P43-SS-033.

The sampling activities and procedures described in this Work Plan will be performed in accordance with the U.S. EPA Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM) and the Base-Wide Generic Work Plan for Naval Air Station (NAS) Cecil Field. Specifically, the Base-Wide Generic Work Plan includes procedures for management of investigation-derived wastes in Volume I and standard operating procedures in the Project Operations Plan in Volume II.

The surface soil samples will be collected as grab samples at a depth of 0 to 1 foot below land surface (bls) using plastic, disposable trowels. Because disposable trowels will be used, decontamination of sampling equipment for surface soil sampling will not be necessary. The sample locations shall be located in the field by a registered surveyor and marked with a wooden stake or pin flag labeled with the sample identification. The sampling crew will work with the survey crew to establish the best procedures to limit the time the wooden stakes or pin flags are in the area and make any field adjustments to the sampling locations which are necessary due to observed field conditions.

Personal protection equipment and other waste trash (e.g., disposable trowels) will not be considered hazardous and will be disposed of in a municipal landfill. Such trash will be collected in a plastic bag and disposed of in a suitable trash receptacle. Removed soil in excess of sampling volume requirements will be placed back in the ground.

Sample handling requirements, the bottleware required, preservation, and holding time requirements for the analysis proposed for this sampling event are as identified in the following table:

| Analysis | Analytical Method | Bottleware | Preservation | Holding Time¹ |
|-----------------|--------------------------|-------------------|---------------------|--|
| PAH | SW-846 8310 | 8-oz. glass jar | Cool to 4° C | 14 days to extraction; 40 days to analysis |

¹ Holding times are measures from the date/time of sample collection

Analytical results will be provided on a 14-day turn around time.

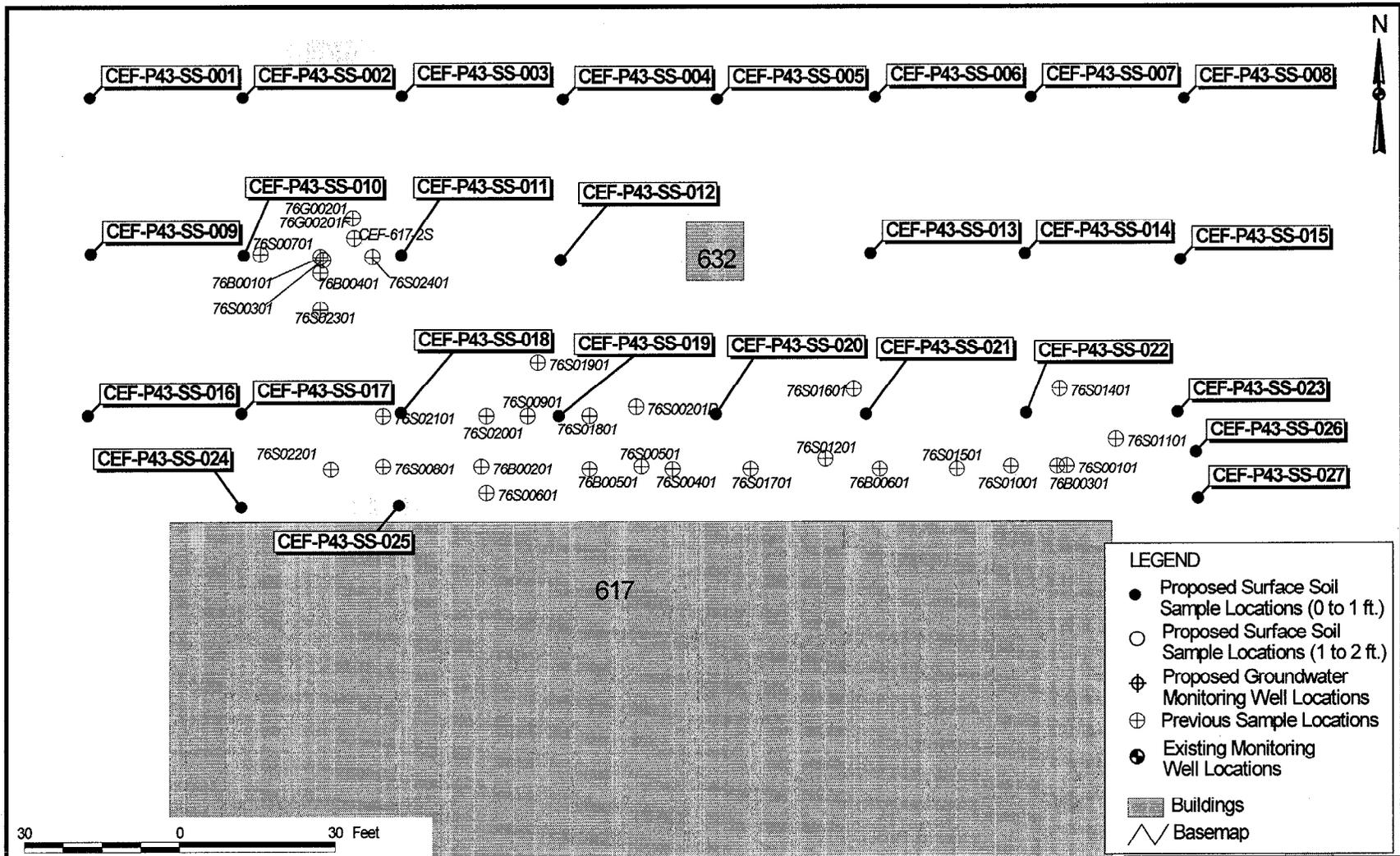
The laboratory contracted to do this work is as follows:

ACCUTEST SOUTHEAST
 4405 Vineland Rd., Suite C-15
 Orlando, Florida 32811
 Attention: Susan Baudios
 (407) 425-6700
 Fax: (407) 425-0707

As agreed by the BCT, the collection of rinsate and trip blanks has been eliminated at NAS Cecil Field. In accordance with these changes, the following table summarizes the frequency and type of field Quality Assurance/ Quality Control (QA/QC) samples to be collected for this confirmatory sampling program.

| Type of samples | Frequency | Samples to be collected |
|------------------------|---------------------|--------------------------------|
| Field Duplicate | 1/10 samples/matrix | 4 |
| Lab MS/MSD | 1/20 samples | 2 |

As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, Tetra Tech NUS personnel will review the analytical data packages generated by the analytical laboratory to eliminate false positive and false negative results.

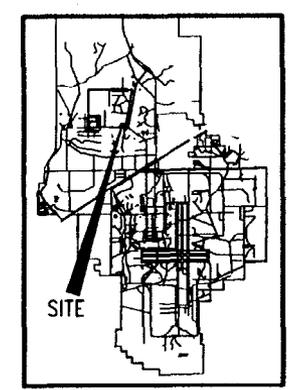


| | |
|--------------------|------------------|
| DRAWN BY YLI | DATE 04/09/99 |
| CHECKED BY | DATE |
| COST/SCHEDULE-AREA | |
| SCALE AS NOTED | |

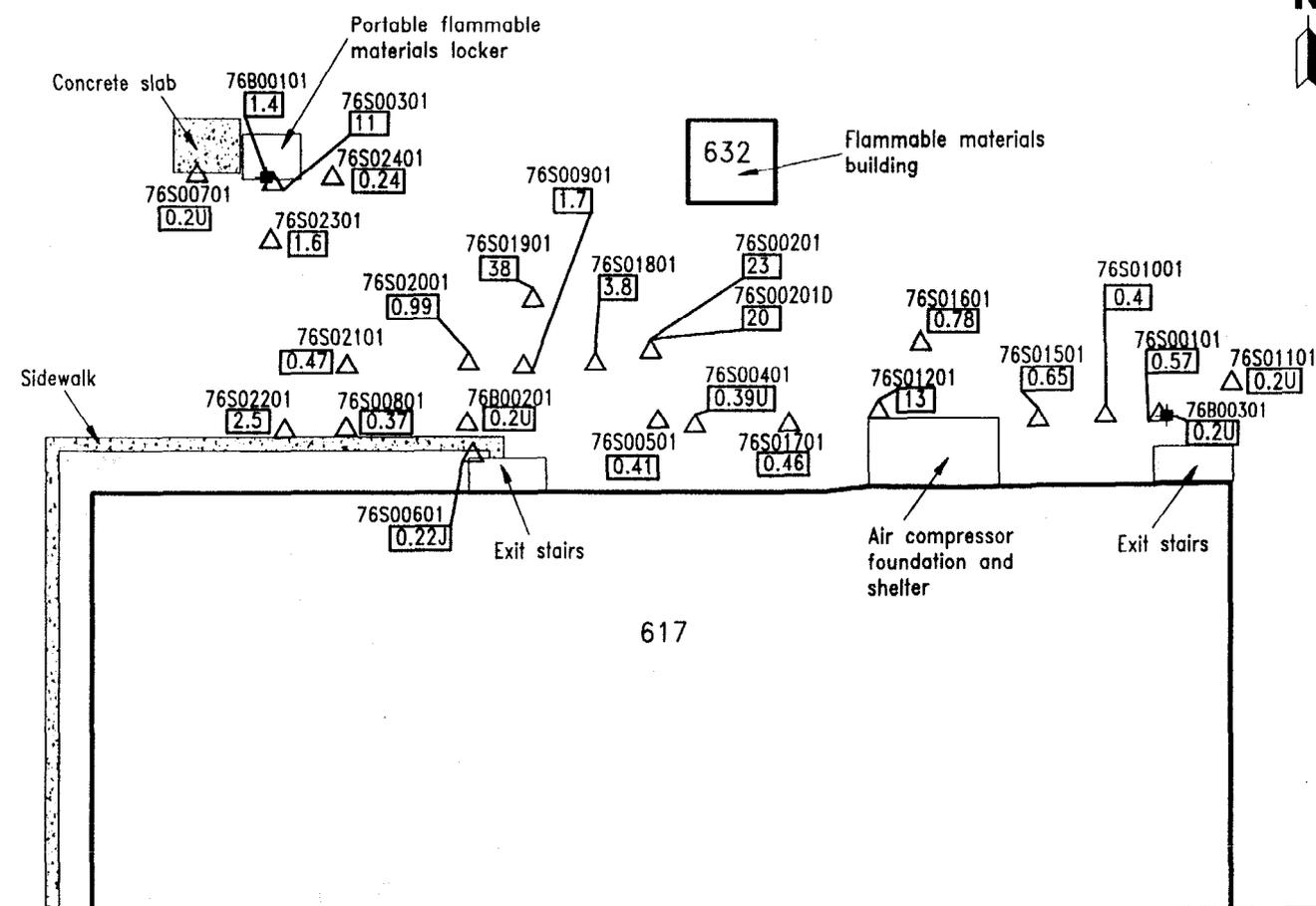


PROPOSED SOIL SAMPLE LOCATIONS
 PSC 43, BUILDING 617
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

| | |
|-------------------------|----------|
| CONTRACT NUMBER 0039 | |
| APPROVED BY | DATE |
| APPROVED BY | DATE |
| DRAWING NO. Figure A | REV 0 |



GENERAL LOCATION PLAN
Not to scale



LEGEND

- 76S01101 Surface soil sample location and designation \triangle
- 76B00101 Subsurface soil sample location and designation \blackstar
- U Not detected
- J Estimated

NOTE:
Indicated concentrations are benzo(a)pyrene in milligrams per kilogram.

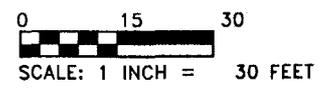


FIGURE B *PSC 43*
FACILITY 617
BOMB DUMMY UNIT AND AVIATION WEAPONS
SUPPORT EQUIPMENT
SAMPLE LOCATION PLAN



SAMPLING AND ANALYSIS REPORT

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

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