

N60200.AR.002038
NAS CECIL FIELD, FL
5090.3a

PHASE 3 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF
CONTAMINATION 25 FORMER TRANSFORMER STORAGE AREA NAS CECIL FIELD FL
8/10/1999
TETRA TECH NUS INC

**Phase III Sampling and Analysis Work Plan
PSC 25, Former Transformer Storage Area
Naval Air Station Cecil Field
Jacksonville, Florida**

August 10, 1999

Phase III sampling and analysis of surface soils is proposed for PSC 25 as identified in Figure A. Sampling and analysis will be conducted to further delineate contamination identified during previous sampling activities including benzo(a)pyrene (BaP), polychlorinated biphenyls (PCBs), and the pesticides DDT and dieldrin in soil samples at concentrations in excess of Florida Department of Environmental Protection (FDEP) residential soil cleanup criteria.

A total of 4 soil samples will be collected as part of Phase II activities. Three samples will be collected from 0 to 1 foot below ground surface (bgs) to further delineate the horizontal extent of contamination. One sample will be collected at 1 to 2 feet bgs to further delineate the vertical extent of contamination in the southwest area of the site. Sample numbers, descriptions, and analyses to be conducted are summarized in Table 1.

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 using plastic, disposable trowels. Because disposable trowels will be used, decontamination of sampling equipment will not be necessary. The surface soil samples at depth will be collected as grab samples at an interval of one to two feet below ground surface using a shovel to remove the first one foot of soil and a disposable trowel to collect the sample.

The location of the proposed samples will be located by a registered surveyor in the field 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. The sample crew will collect the sample from the location identified.

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

Sampling 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 Time⁽¹⁾
PAHs	SW-846 8310	8-oz. glass jar	Cool to 4 °C	14 days to extraction; 40 days to analysis
PCBs	SW-846 8082	8-oz. glass jar	Cool to 4 °C	14 days to extraction; 40 days to analysis
Pesticides	SW-846 8081A	8-oz. glass jar	Cool to 4 °C	14 days to extraction; 40 days to analysis

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

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

The laboratory contracted to do this work is as follows:

ACCUTEST SOUTHEAST
4405 Vineland Road, Suite C-15
Orlando, Florida 32881
Attention: Susan Gaudios
(407) 425-5700
Fax: (407) 425-0707

As agreed upon by the BCT, the collection of rinsate and trip blanks has been eliminated at NAS Cecil Field. In addition, field blanks will not be collected during this sampling program because there will be minimal decontamination of sampling equipment. 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 sampling program.

Type of Samples	Frequency	Samples to be Collected
Field Duplicate	1/10 sample/matrix	1
Lab MS/MSD	1/20 samples	1 ⁽¹⁾

1 MS/MSD is a Laboratory QA/QC requirement, separate sample not required, only additional volume.

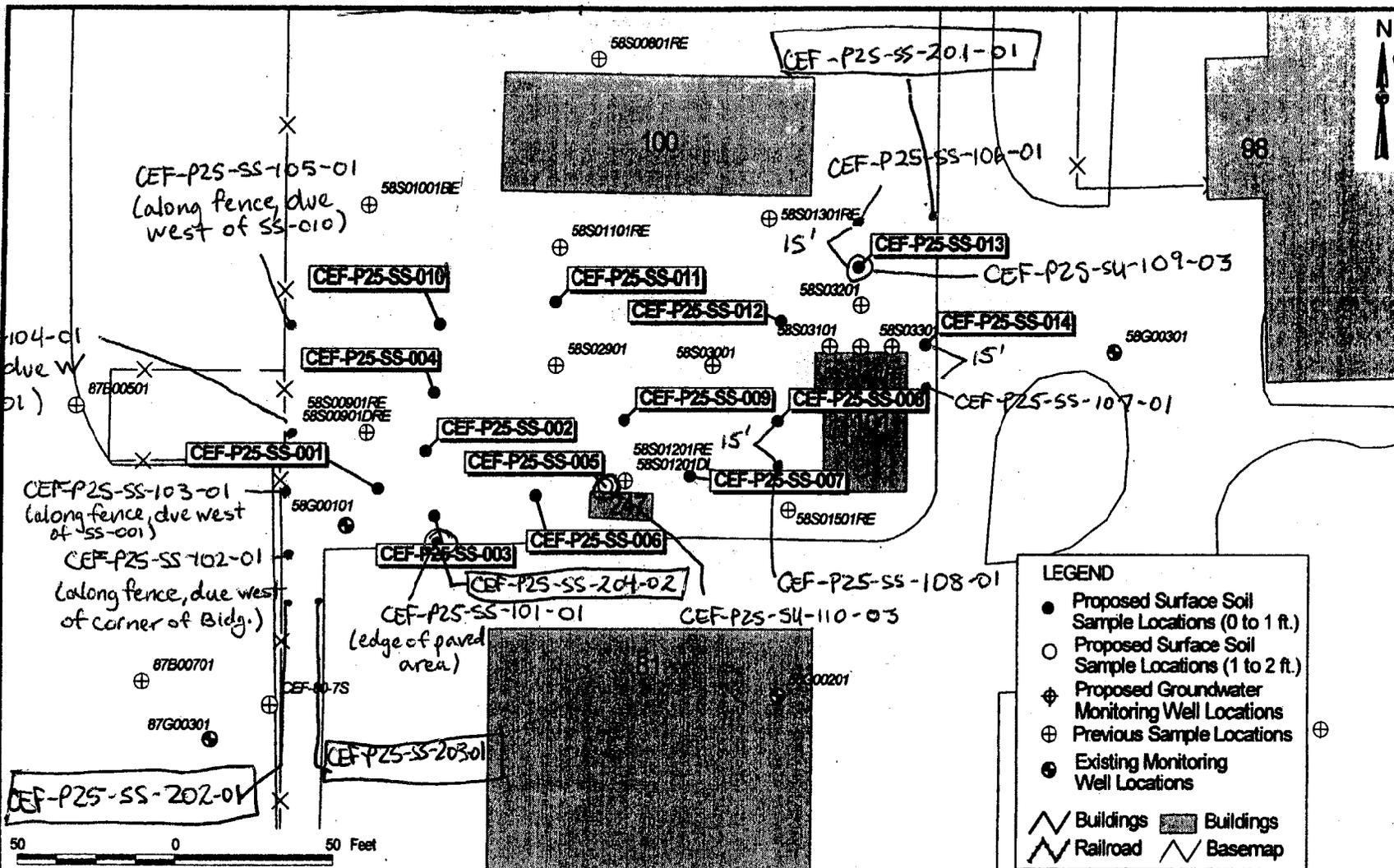
As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, the analytical data packages generated by the analytical laboratory will be reviewed by Tetra Tech NUS personnel to eliminate false positives and false negative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

Table 1

**Phase III Sampling and Analysis Work Plan
PSC 25, Former Transformer Storage Area**

Sample ID	Location	Sample Interval		Analysis		
		0 to 1 ft	1 to 2 ft	PAHs	PCBs	Pest.
CEF-P25-SS-201-01	Approximately 25 feet due east of CEF-P25-SS-106-01, along edge of paved area	X			X	X
CEF-P25-SS-202-01	Along fenceline due south of CEF-P25-SS-102-01	X		X	X	
CEF-P25-SS-203-01	Approximately 10 feet due east of CEF-P25-SS-203 location, along edge of Building 81 paved area	X		X	X	
CEF-P25-SS-204-02	At CEF-P25-SS-101-01 location		X	X	X	X

8-10-99



CEP-P25-SS-104-01
(along fence, due W
of 58S00901)

CEP-P25-SS-105-01
(along fence, due
west of SS-010)

CEP-P25-SS-103-01
(along fence, due west
of SS-001)

CEP-P25-SS-102-01
(along fence, due west
of corner of Bldg.)

CEP-P25-SS-101-01
(edge of paved
area)

CEP-P25-SS-202-01

CEP-P25-SS-203-01

CEP-P25-SS-201-01

CEP-P25-SS-106-01

CEP-P25-SS-013

CEP-P25-SU-109-03

CEP-P25-SS-014

CEP-P25-SS-107-01

CEP-P25-SS-009

CEP-P25-SS-008

CEP-P25-SS-002

CEP-P25-SS-005

CEP-P25-SS-003

CEP-P25-SS-006

CEP-P25-SS-108-01

CEP-P25-SU-110-03

LEGEND

- Proposed Surface Soil Sample Locations (0 to 1 ft.)
- Proposed Surface Soil Sample Locations (1 to 2 ft.)
- ⊕ Proposed Groundwater Monitoring Well Locations
- ⊕ Previous Sample Locations
- Existing Monitoring Well Locations
- ▭ Buildings
- ▭ Buildings
- ⚡ Railroad
- ⚡ Basemap

DRAWN BY YLI	DATE 04/05/99
CHECKED BY	DATE
COST/SCHEDULE/AREA	
SCALE AS NOTED	



PHASE III
 PROPOSED SOIL SAMPLE LOCATIONS
 PSC 25, FORMER TRANSFORMER STORAGE AREA
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

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