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NAS CECIL FIELD, FL
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PHASE 2 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF
CONTAMINATION 50 FACILITY 98 NAS CECIL FIELD FL
6/18/1999
TETRA TECH NUS INC

**Phase II Sampling and Analysis Work Plan
PSC 50, Facility 98
Naval Air Station Cecil Field
Jacksonville, Florida**

June 18, 1999

Phase II sampling and analysis is proposed for PSC 50, Facility 98 to further delineate previously detected contamination. Previous sampling identified polycyclic aromatic hydrocarbon (PAH) contamination in soil samples above Florida Department of Environmental Protection (FDEP) residential soil screening criteria in the area between Facility 98 and the abandoned railroad tracks.

The objective of this sampling event is to collect surface soil samples to complete the delineation of PAH contamination near Facility 98. Phase II sampling will include soil samples in the area between Facility 98 and the old railroad tracks, however this sampling event will not delineate the old railroad track itself as per the February 11, 1999 Base Realignment and Closure Team (BCT) meeting (Minutes Ref. No. 821).

A total of 4 soil samples will be collected from the approximate locations identified on Figure A and summarized in Table 1. Based on Phase I sample results, a sample is required between previous sample locations CEF-P50-SS-002 and CEF-P50-SS-006 to delineate contamination along the fence line to the east of Building 98. In addition, a sample from 1 to 2 feet will be collected at the Phase I CEF-P50-SS-003 location to establish the depth of excavation. This location was chosen because it had the highest concentrations of PAHs during Phase I sampling. The soil samples to be collected during Phase II sampling are described below.

- One surface soil sample (0 to 1 foot) will be collected 15 feet due north of the Phase I CEF-P50-SS-001 location. This sample will be designated CEF-P51-SS-101-01 and will be analyzed for PAHs.
- One surface soil sample (0 to 1 foot) will be collected 15 feet due south of the previous CEF-P50-SS-007 location. This sample will be designated CEF-P51-SS-102-01 and will be analyzed for PAHs.
- One surface soil sample (0 to 1 foot) will be collected along the fence line midway between Phase I samples CEF-P50-SS-002 and CEF-P50-SS-006. This sample will be designated as CEF-P50-SS-103-01 and will be analyzed for PAHs.
- One surface soil sample (1 to 2 feet) will be collected from the previous CEF-P50-SS-003 location and analyzed for PAHs. The sample will be designated as CEF-P50-SS-104-02.

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. Removed soil in excess of sampling volume requirements will be placed back on the ground and the turf replaced or repaired. 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.

The proposed sample locations will be located in the field by a registered land surveyor and will be 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. If the sample location requires movement based on field observations or conditions, the location where the sample was actually collected will be surveyed and reported.

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⁾
PAH	SW-846 8310	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.

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

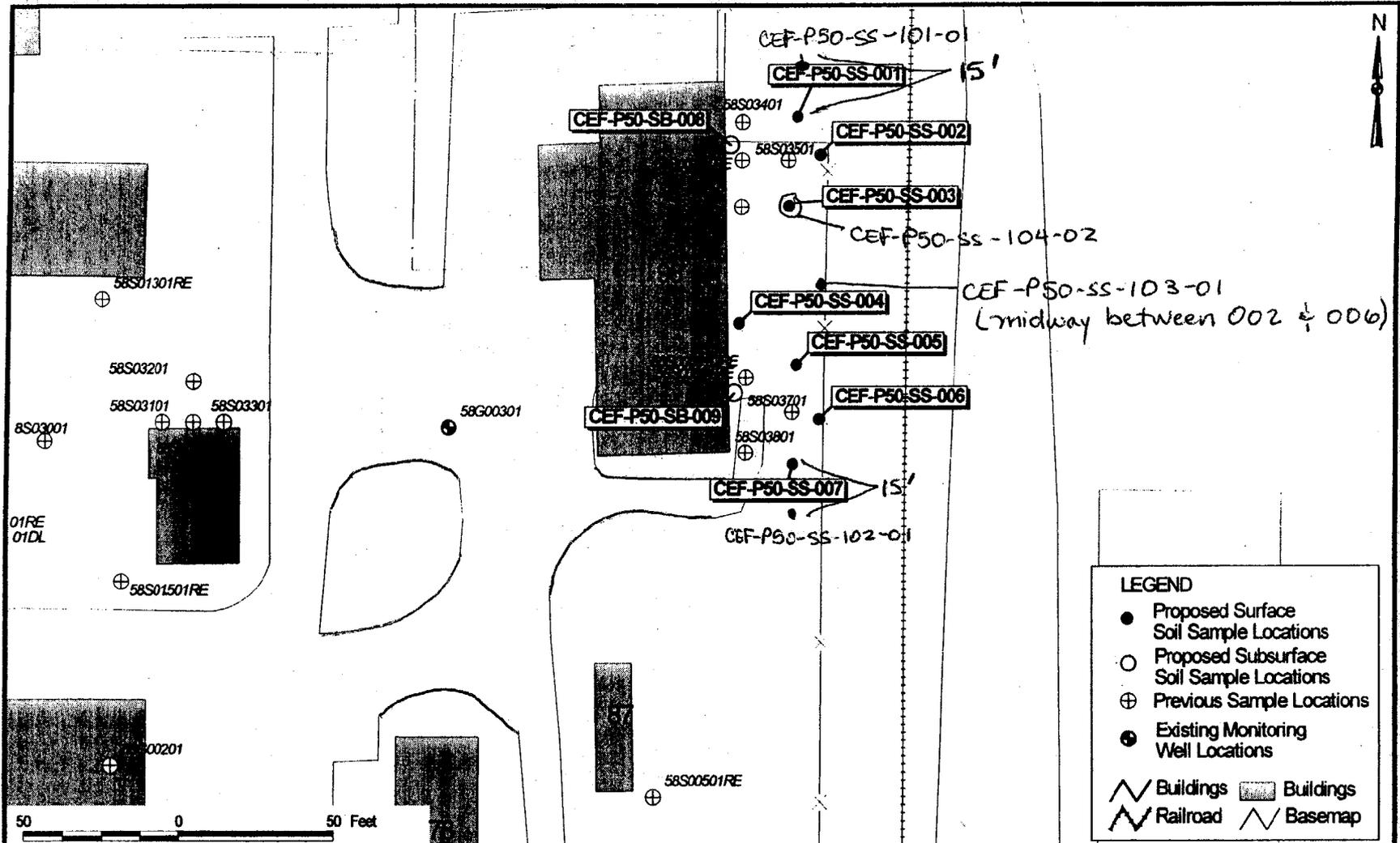
As agreed upon by the BCT, formal data validation has been eliminated from the installation restoration program at NAS Cecil Field. However, the analytical data packages generated by the analytical laboratory will be reviewed by Tetra Tech NUS personnel to eliminate false positives and false negative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

Table A

**Phase II Sampling and Analysis Work Plan
PSC 50, Facility 98**

Sample ID	Location	Sample Type and Number		Analysis
		0-1 ft.	1-2 ft.	PAHs
CEF-P50-SS-101-01	15 feet due north of CEF-P50-SS-001	1	0	X
CEF-P50-SS-102-01	15 feet due south of CEF-P50-SS-007	1	0	X
CEF-P50-SS-103-01	Midway between CEF-P50-SS-002 and CEF-P50-SS-006, along fenceline	1	0	X
CEF-P50-SS-104-02	At the CEF-P50-SS-003 location	0	1	X

18-Jun-99



LEGEND

- Proposed Surface Soil Sample Locations
- Proposed Subsurface Soil Sample Locations
- ⊕ Previous Sample Locations
- Existing Monitoring Well Locations
- ▭ Buildings
- ▭ Buildings
- ⚡ Railroad
- ⚡ Basemap

DRAWN BY	DATE
YLI	04/03/99
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



Phase II
 PROPOSED SOIL SAMPLE LOCATIONS
 PSC 50, FACILITY 98
 NAVAL AIR STATION CECIL FIELD
 JACKSONVILLE, FLORIDA

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