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NAS CECIL FIELD, FL
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PHASE 4 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF
CONTAMINATION 46 BUILDINGS 72 AND 177 NAS CECIL FIELD FL

11/8/1999

TETRA TECH NUS INC

**Phase IV Sampling and Analysis Work Plan
PSC 46, Buildings 72 and 177
Naval Air Station Cecil Field
Jacksonville, Florida**

November 8, 1999

Phase IV sampling and analysis of surface and subsurface soils is proposed for PSC 46 to further delineate soil excavation boundaries. PSC 46, located to the southeast of the South Fuel Farm, is comprised of the grassy area south of Building 72 and west of Building 177 at Naval Air Station (NAS) Cecil Field. Building 72 is the Crash Fire Station, which has the primary purpose of responding to crashes on the flightline. Building 177 is a Quonset Hut that holds various supplies. Previous surface soil sampling at this site identified several sample locations containing benzo(a)pyrene (BaP) and total recoverable petroleum hydrocarbons (TRPH) at levels that exceed the Florida Department of Environmental Protection (FDEP) cleanup criteria.

A total of 11 soil samples will be collected from the approximate locations identified on Figure A and described in Table 1. Analytical requirements are listed in Table 1.

Because of the proximity to active runways and taxiways, this sampling must be coordinated with Jaxport Air Operations. Ramp safety requirements must be followed. At least one field crewmember shall have ramp training.

The sampling activities and procedures as described in this Work Plan will be performed in accordance with the United States Environmental Protection Agency (U.S. EPA) Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM) and the Base-Wide Generic Work Plan for NAS Cecil Field. Specifically, the Base-Wide Generic Work Plan includes the procedures for management of IDW in Volume I, and the SOPs are 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 surface soil sampling equipment will not be necessary. Hand augering may be required to obtain the subsurface soil samples, with decontamination as described in the EISOPQAM and Base-Wide Generic Work Plan. The location of the proposed samples will be identified by a registered surveyor in the field and marked with a wooden stake 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 sampling crew will collect the samples from the locations identified.

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, and turf will be replaced or repaired.

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
PAHs	SW-846 8310	8-oz. glass jar	Cool to 4° C	14 days to extraction; 40 days to analysis
TPRH	Florida PRO	8-oz. glass jar	Cool to 4° C	14 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 time.

The laboratory contracted to do this work is as follows:

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

As agreed by the Base Closure Team (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	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, TtNUS personnel will review the analytical data packages generated by the analytical laboratory to eliminate false positive and false negative results.

Table 1

Phase IV Sampling and Analysis
 PSC 46, Buildings 72 and 177

Sample ID	Location	Sample Depth	Analysis	
			PAHs	TRPH
CEF-P46-SS-301-01	15 feet west of CEF-P46-SS-215-01	0 - 1 ft	X	
CEF-P46-SS-302-01	15 feet west of CEF-P46-SS-301-01	0 - 1 ft	X	
CEF-P46-SS-303-02	At CEF-P46-SS-009-01 location	1 - 2 ft	X	
CEF-P46-SU-304-03	At CEF-P46-SS-112-02 location	2 - 3 ft	X	X
CEF-P46-SS-305-01	Midway between CEF-P46-SS-010 and CEF-P46-SS-205	0 - 1 ft	X	
CEF-P46-SS-306-01	Midway between CEF-P46-SS-010 and CEF-P46-SS-212	0 - 1 ft	X	
CEF-P46-SU-307-03	Approximately 50 feet west of CEF-P46-SS-112-02 and CEF-P46-SU-304-03	2 - 3 ft	X	
CEF-P46-SU-308-03	Approximately 25 feet east of CEF-P46-SS-003	2 - 3 ft	X	
CEF-P46-SU-309-03	Approximately 75 feet west of CEF-P46-SS-021	2 - 3 ft	X	
CEF-P46-SS-310-02	At CEF-P46-SS-007 location	1 - 2 ft	X	
CEF-P46-SS-311-02	Approximately 50 feet south of CEF-P46-SS-007 and CEF-P46-SU-310 location	1 - 2 ft	X	

PAHs = Polycyclic aromatic hydrocarbons
 TRPH = Total recoverable petroleum hydrocarbons

