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NAS CECIL FIELD, FL
5090.3a

PHASE 5 SOIL SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF
CONTAMINATION 44 DITCH FROM DEFENSE REUSE AND MARKETING OFFICE TO
WASTEWATER TREATMENT PLANT NAS CECIL FIELD FL

1/14/2000

TETRA TECH NUS INC

**Phase V Soil Sampling and Analysis Work Plan
PSC 44, Ditch From DRMO to WWTP
Naval Air Station Cecil Field
Jacksonville, Florida**

January 14, 2000

Phase V sampling and analysis of surface and subsurface soils is proposed for PSC 44, Ditch From DRMO to WWTP as shown in Figure A. Sampling and analysis is being conducted to further excavation boundaries for polychlorinated biphenyl (PCB) contamination identified during previous sampling.

A total of 5 soil samples will be collected, including two surface soil samples from the 0- to 1-foot interval, one subsurface soil sample from the 2- to 3-foot interval, and two samples from the 3- to 4-foot interval. These samples will be collected from locations identified on Figure A and described in Table 1 and analyzed for PCBs.

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. Subsurface soil samples will be collected using a hand auger with decontamination in accordance with the Base-Wide Generic Work Plan and the EISOPQAM. 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
PCBs	SW-846 8082	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	1
Lab MS/MSD	1/20 samples	1 ⁽¹⁾

(1) MS/MSD samples are a laboratory QA/QC requirement. Separate samples are not required, only additional volume (2X),

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.

TABLE 1

PHASE V SOIL SAMPLING AND ANALYSIS
 PSC 44, DITCH FROM DRMO TO WWTP

Sample ID CEF-P44-	Location	Sample Depth			Analysis
		0-1 ft.	2-3 ft.	3-4 ft.	PCBs
SS-401-01	15 feet due west of CEF-P44-SS-304-01	X			X
SS-402-01	15 feet due west of CEF-P44-SS-305-01	X			X
SU-403-03	At CEF-P44-SS-310-02 location		X		X
SU-404-04	At CEF-P44-SS-310-02 location			X	X
SU-405-04	At CEF-P44-SU-311-03 location			X	X

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