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NAS CECIL FIELD, FL  
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PHASE 3 SAMPLING AND ANALYSIS OUTLINE FOR NORTH-SOUTH HIGH SPEED  
REFUELERS NAS CECIL FIELD FL  
2/25/2000  
TETRA TECH NUS INC

**Phase III Sampling and Analysis Outline  
North-South High Speed Refuelers  
Naval Air Station Cecil Field  
Jacksonville, Florida**

**February 25, 2000**

Phase III sampling and analysis of surface and subsurface soils is proposed for the North-South High Speed Refuelers (NSHSR) to delineate polycyclic aromatic hydrocarbon (PAH) contamination. The NSHSR are located between the North-South taxiways "A" and "D", opposite Building 67 at Naval Air Station (NAS) Cecil Field and were used to refuel aircraft.

The NSHSR have a series of catch basins and sumps that controlled the discharge of spills. The catch basins, sumps, and related curbing and pavement limited spills from entering unpaved areas and direct discharge to the storm sewers. Sampling as part of this investigation is focused on the areas next to the catch basins and sumps. The sampling approach is similar to that used at the East-West High Speed Refuelers that were investigated during the Sites 36/37 Remedial Investigation (TtNUS, August 1999).

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

A total of 7 soil samples will be collected from the locations identified on Figure A and described in Table 1. Samples adjacent to catch basins or sumps are to be collected within 6 inches of the wall of the catch basin or sump. Analytical requirements also are listed in Table 1.

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. Subsurface soil samples will be collected using a stainless steel hand auger.

The location of each sample will be surveyed by a registered surveyor after sample collection. To minimize FOD, the sample locations will be marked with stakes or hubs that are placed near flush with the ground surface. The stake and ground will be spray painted so that the surveyor can readily find each location. The sample number (limited to a few digits, such as "01") will be written on the stake. The sampling crew will schedule the survey crew to minimize the time the wooden stakes are in the place. After the points have been surveyed, the stakes are to be removed and discarded by TtNUS.

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

Analysis	Analytical Method	Bottlere	Preservation	Holding Time <sup>1</sup>
PAHs	SW-846 8310	8-oz. glass jar	Cool to 4° C	14 days to extraction; 40 days to analysis

<sup>1</sup> 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: Linda Williams  
 (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/matrix	1
Lab MS/MSD	1/20 samples	1 <sup>(1)</sup>

<sup>(1)</sup> 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.

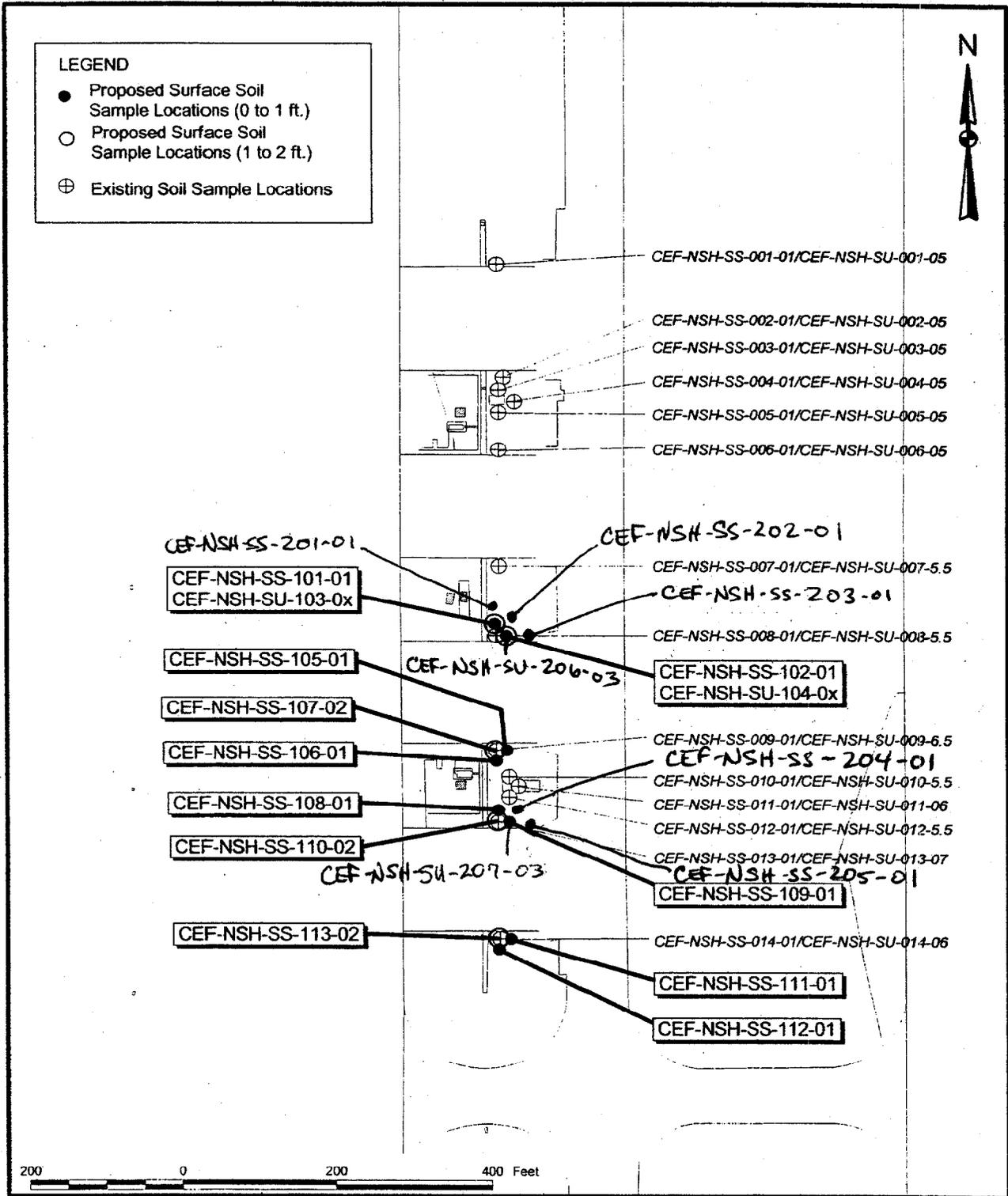
**Table 1**

**Phase III Sampling and Analysis Outline  
 North-South High Speed Refuelers**

Sample ID	Location	Sample Depth, feet bgs	Analysis
			PAHs
CEF-NSH-SS-201-01	15 feet north of CEF-NSH-SS-101-01	0 - 1	X
CEF-NSH-SS-202-01	15 feet east of CEF-NSH-SS-101-01	0 - 1	X
CEF-NSH-SS-203-01	15 feet east of CEF-NSH-SS-102-01	0 - 1	X
CEF-NSH-SS-204-01	15 feet north of CEF-NSH-SS-109-01	0 - 1	X
CEF-NSH-SS-205-01	15 feet east of CEF-NSH-SS-109-01	0 - 1	X
CEF-NSH-SU-206-03	At CEF-NSH-SS-102-01 location	2 - 3	X
CEF-NSH-SU-207-03	At CEF-NSH-SS-013-01/110-02 location	2 - 3	X

PAHs = Polycyclic aromatic hydrocarbons

2-28-00



DRAWN BY MJJ	DATE 09Nov99
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



**PHASE III**  
 PROPOSED SOIL SAMPLE LOCATIONS  
 NORTH/SOUTH HIGH SPEED REFUELERS  
 NAVAL AIR STATION CECIL FIELD  
 JACKSONVILLE, FLORIDA

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