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NAS CECIL FIELD, FL
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PHASE 3 SAMPLING AND ANALYSIS WORK PLAN FOR POTENTIAL SOURCE OF CONTAMINATION 32 DEFENSE REUSE AND MARKETING OFFICE ASPHALT STORAGE YARD NAS CECIL FIELD FL

9/28/1999

TETRA TECH NUS INC

Phase III Sampling and Analysis Work Plan
PSC 32, DRMO Asphalt Storage Yard
Naval Air Station Cecil Field
Jacksonville, Florida

September 28, 1999

Phase III sampling and analysis of soils is proposed for PSC 32, DRMO Asphalt Storage Yard, as shown in Figure A. Sampling and analysis will be conducted to further delineate polycyclic aromatic hydrocarbon (PAHs) contamination identified during previous sampling activities. A total of 5 soil samples will be collected from approximate locations shown on Figure A as described 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 this sampling equipment for surface soil sampling will not be necessary. The 1- to 2-foot surface soil samples at depth may be collected as grab samples using a shovel to remove the first one foot of soil and a disposable trowel to collect the sample. The 1- to 2-foot surface soil sample at depth may be collected as a grab sample using a shovel to remove the first one foot of soil and a disposable trowel to collect the sample. The subsurface soil sample will be collected using a hand auger with decontamination in accordance with the Base-Wide Generic Work Plan and the EISOPQAM. The 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. If the locations of the sampling points are moved, based on field conditions, then the location where the sample was collected will be re-surveyed.

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]
TAL	SW-846-6010B	8-oz. glass jar	Cool to 4°C	180 days to analysis, except Hg with is 28 days to analysis.
PAHs	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.

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 no 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/matrix	1[(1)]

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

Table 1

Phase III Sampling and Analysis
PSC 32, DRMO Asphalt Storage Yard

Sample ID CEF-P32	Location	Sample Depth	Analysis
			PAHs
SS-201-01	15 feet due north of CEF-P32-SS-101	0 to 1'	X
SS-202-01	Midway between CEF-P32-SS-201 and CEF-P32-SS-203 locations	0 to 1'	X
SS-203-01	15 feet east of CEF-P32-SS-102	0 to 1'	X
SS-204-02	At CEF-P32-SS-102 location	1 to 2'	X
SU-205-03	At CEF-P32-SS-003-01 and CEF-P32-SS-107-02 location	2 to 3'	X

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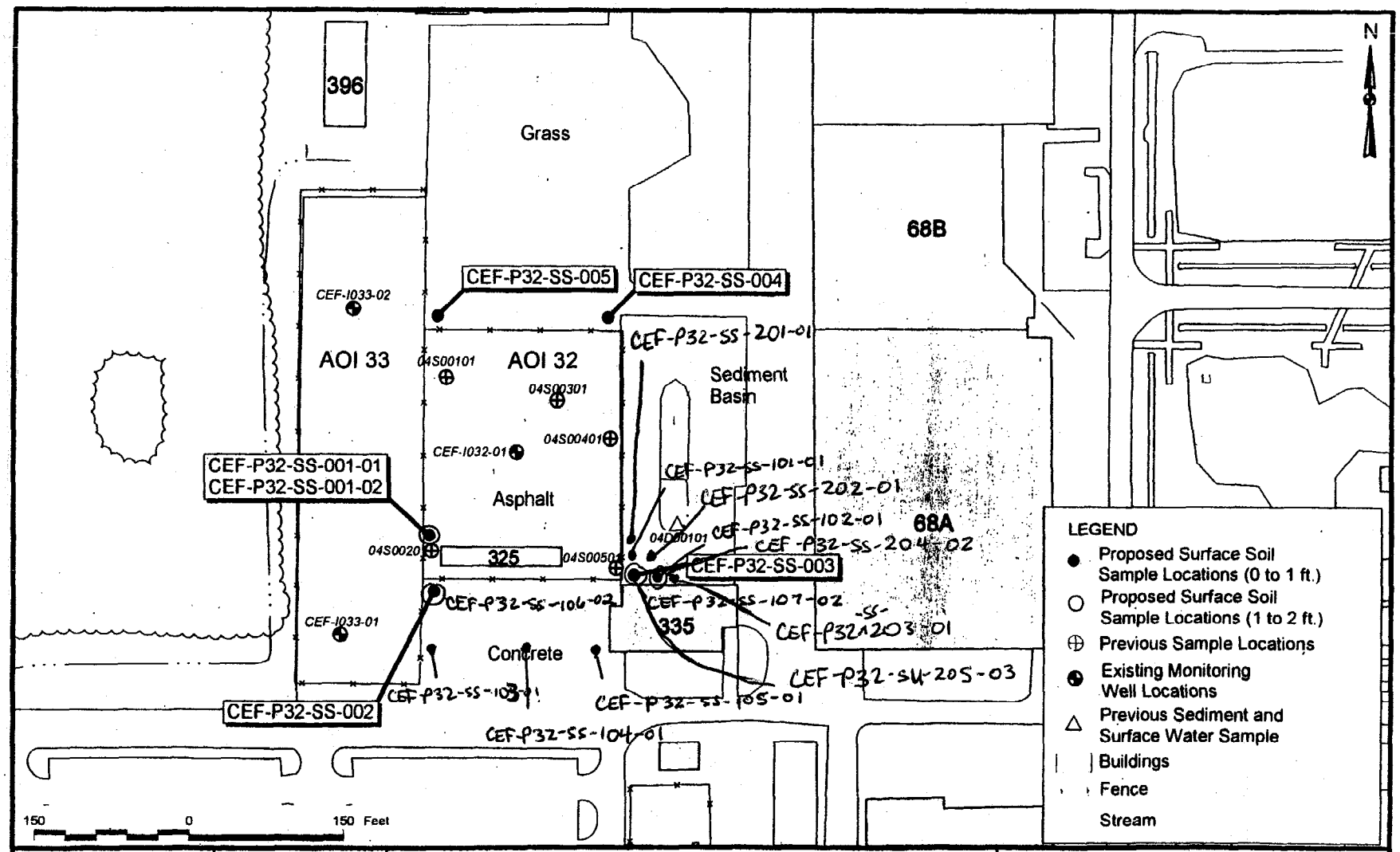

DRAWN BY: YLI	DATE: 04/06/99	PHASE III PROPOSED SOIL SAMPLE LOCATIONS PSC 32, DRMO ASPHALT STORAGE YARD NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER: 0039
CHECKED BY: —	DATE: —		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA: —			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO: FIGURE A; REV: 0

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