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NAS CECIL FIELD, FL
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SAMPLING AND ANALYSIS PLAN FOR OPERABLE UNIT 5 (OU 5) SITE 15 BLUE 10 ORDNANCE DISPOSAL AREA NAS CECIL FIELD FL

2/15/2000

TETRA TECH NUS INC

Sampling and Analysis Plan
Site 15, Blue 10 Ordnance Disposal Area
Naval Air Station Field
Jacksonville, Florida

February 15, 2000

Sampling and analysis of the surface soil is proposed for Site 15 as identified in Figure A. Sampling and analysis will be conducted to determine a site specific leachability number for polynuclear aromatic hydrocarbons (PAHs) at the site. Four surface soil samples (0'-1' bgs) will be collected for PAH leaching evaluation from the locations identified on Figure A and summarized in Table 1.

The procedure is as follows:

1. **Collect surface soil samples as identified in Table 1 and label one bottle "for immediate analysis" and one bottle "HOLD" as identified in the table. The SPLP sample bottle will be taped closed and "Do not analyze until directed by TtNUS" will be written on the label. The chain of custody shall be noted with instructions to analyze the soil for PAHs first, report the results to TtNUS, then TtNUS will direct the laboratory to perform the SPLP, if needed.**

2. **The samples "for immediate analysis" will be analyzed for PAHs on *3-day turn*. Results are to be reported immediately to TtNUS Pittsburgh for determination if SPLP procedure is required.**

3. **As directed by TtNUS, the lab shall conduct SPLP on a *3-day turn*.**

4. **Lab to report results of PAH SPLP analysis to TtNUS Pittsburgh.**

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 sample will be collected as grab samples using plastic, disposable trowels. Because a disposable trowel will be used, decontamination of sampling equipment will not be necessary. The location of the sample will be identified in the field using existing pin flag sample markers or by a registered surveyor. The sample locations will be marked in the field 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 stake or pin flag is in the area

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.

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 Time[1]
PAHs	SW-846 8310	8-oz. glass jar	Cool to 4°C	14 days to extraction; 40 days to analysis
SPLP (PAHs)	EPA 1312/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 for the four samples "for immediate analysis" require a **3-day turn**. The SPLP analysis after the initial preliminary results are provided is also request on a **3-day turn**.

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.

Type of Samples	Frequency	Samples to be Collected
Field Duplicate	1/10 samples/matrix	1
Lab MS/MSD	1/20 samples/matrix	1[(1)]

1 MS/MSD is a Laboratory QA/QC requirement, separate sample not required, only additional volume.

The laboratory contracted to do this work is as follows:

ACCUTEST SOUTHEAST
4405 Vineland Road, Suite C-15
Orlando, Florida 32881
Attention: Linda Williams
(407) 425-6700
Fax: (407) 425-0707

TABLE 1

SAMPLE SUMMARY
Sampling and Analysis Work Plan
Site 15, Blue 10 Ordnance Disposal Area

Sample	Sample Location Description (at former sample location)	Sample Interval (bgs)	Analysis PAHs	SPLP PAHs
CEF-15-SS-701	CEF-15-SS-560	0'-1'	Yes	TBD
CEF-15-SS-702	CF-15-SS-054	0'-1'	Yes	TBD
CEF-15-SS-703	CF-15-SS-060	0'-1'	Yes	TBD
CEF-15-SS-704	CF-15-SS-127	0'-1'	Yes	TBD

Yes – soil sample to be analyzed for PAHs

TBD – To be Determined. Synthetic Precipitation Leaching Procedure (SPLP) will be conducted and leachate tested for PAHs based on soil PAH results. **LAB IS NOT TO CONDUCT ANY SPLP TESTS UNTIL DIRECTED BY TtNUS BASED ON INITIAL PAH RESULTS.**

Field crew will note on the chain of custody that the laboratory is to proceed with the PAH analysis and no SPLP analysis is to be performed until authorized by TtNUS.

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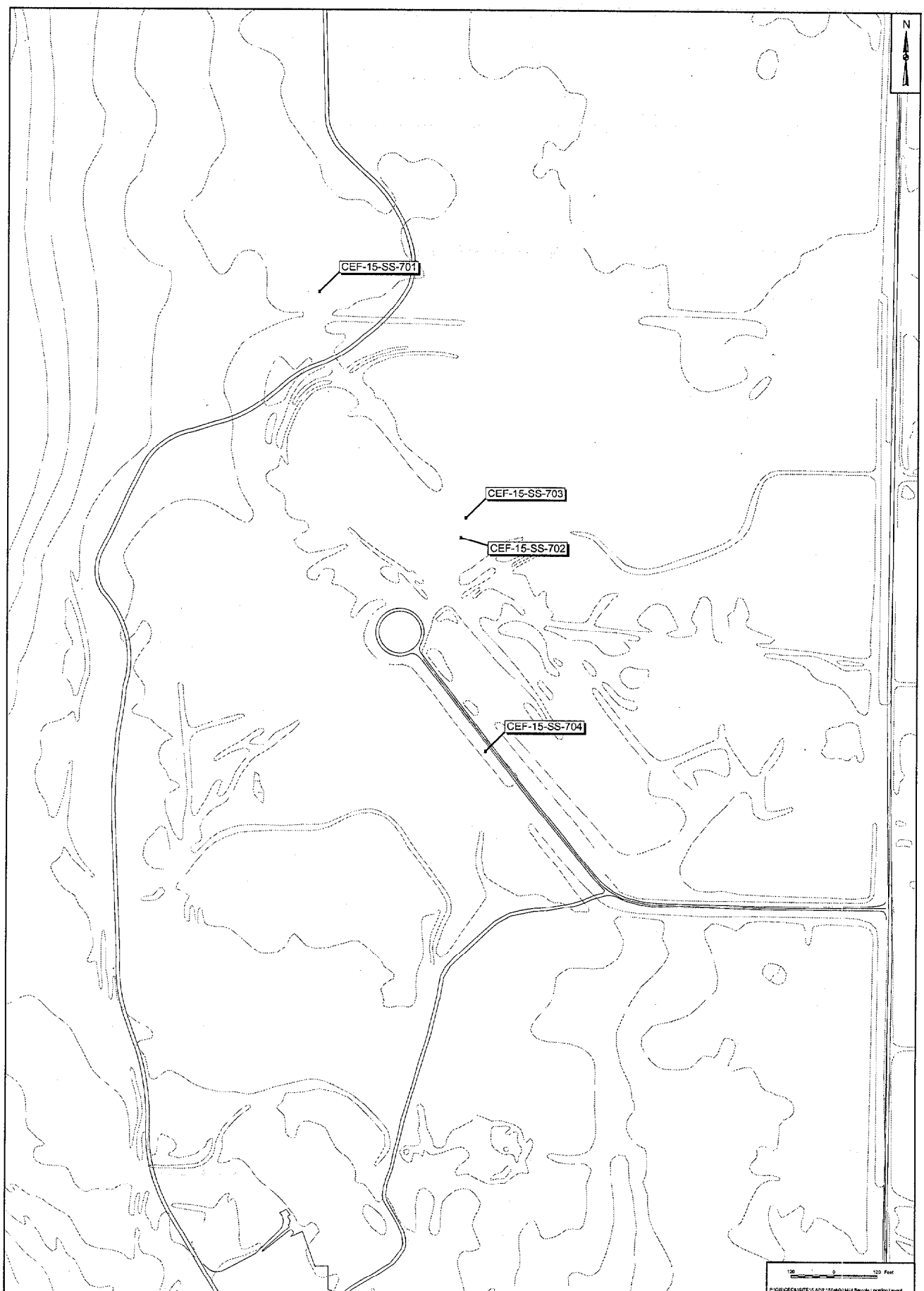

DRAWN BY MJJ	DATE 28Dec99	PROPOSED SAMPLING LOCATIONS SITE 15, OPERABLE UNIT 5 NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NO. —
CHECKED BY	DATE		OWNER NO. —
	DATE		APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. — / REV. 0