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CONFIRMATORY SAMPLING REPORT FOR BUILDING 825 TANK G825LS BASE
REALIGNMENT AND CLOSURE NAS CECIL FIELD FL
9/1/2000
TETRA TECH NUS INC

Confirmatory Sampling Report
for
Building 825, Tank G825LS

Base Realignment and Closure

Naval Air Station Cecil Field
Jacksonville, Florida



Southern Division
Naval Facilities Engineering Command
Contract Number N62467-94-D-0888
Contract Task Order 0121

September 2000

**CONFIRMATORY SAMPLING REPORT
FOR
BUILDING 825, TANK G825LS
BASE REALIGNMENT AND CLOSURE**

**NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA**

**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

**Submitted to:
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Naval Facilities Engineering Command
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**CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0121**

SEPTEMBER 2000

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ACRONYMS

ABB-ES	ABB Environmental Services, Inc.
BLS	Below Land Surface
CSR	Confirmatory Sampling Report
FID	Flame Ionization Detector
NAS	Naval Air Station
NFA	No Further Action
OVA	Organic Vapor Analyzer
POA	Plan of Action
SAP	Sampling and Analysis Plan
SOUTHNAVFACENGCOM	Southern Division Naval Facilities Engineering Command
TtNUS	Tetra Tech NUS, Inc.
UST	Underground Storage Tank

1.0 INTRODUCTION

Tetra Tech NUS, Inc. (TtNUS) was authorized by Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) to conduct a site investigation and develop a Confirmatory Sampling Report (CSR) for Tank G825LS at Naval Air Station (NAS) Cecil Field in Jacksonville, Duval County, Florida. A Sampling and Analysis Plan (SAP) for the assessment of soil and possibly groundwater at various tank sites including Tank G825LS was submitted by TtNUS (2000a).

Tank G825LS is an underground storage tank (UST) located just north of an oil-water separator on the south side of Building 825 and east of Lift Station 825LS (Figure 2-1). Building 825 was used as a hangar to house four separate fighter squadrons, and Building 825LS was operated as a lift station, which received wastewater from aircraft wash racks [ABB-Environmental Services, Inc. (ABB-ES), 1994]. The UST has a 250-gallon capacity and was used to store diesel fuel for the lift station generator (ABB-ES, 1997a).

Confirmatory soil screening conducted by ABB-ES (1997b) consisted of soil screening at four locations around the UST with an organic vapor analyzer (OVA). The results of that investigation indicated that contaminated soil was not present at that time, and a recommendation of no further action (NFA) was made by them in the report.

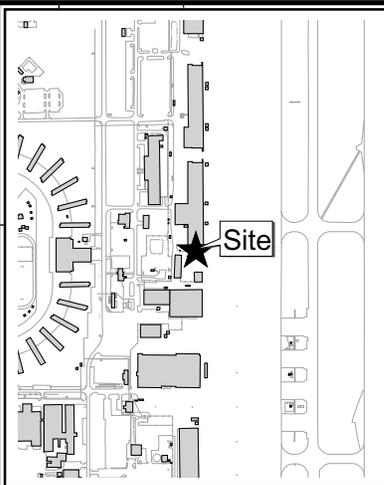
2.0 FIELD INVESTIGATION

The investigation was conducted between June 7 and 16, 2000, and included:

- Utility location prescribed for underground work.
- Four hand auger soil borings.
- Soil screening at prescribed intervals (TtNUS, 2000a).

The methodologies and equipment that were used during this investigation are in accordance with the TtNUS Comprehensive Quality Assurance Plan No. 980038, as approved by the Florida Department of Environmental Protection. A site location map is provided inset to Figure 2-1.

Following utility location protocols and an initial site visit, four hand auger borings were advanced in the soil around Tank G825LS (Figure 2-1). The soil borings were advanced to the water table, general soil lithology was recorded, and soil samples were collected at depth intervals of 1 foot below land



Asphalt

825

563LN

Tank G825LS
250-Gallon UST

CEF-B825LS-SB-002
(0.0)

CEF-B825LS-SB-001
(0.0)

CEF-B825LS-SB-003
(0.0)

Grass

Grass

CEF-B825LS-SB-004
(0.0)

817

Oil-Water Separator

Asphalt

CEF-825LS-1S

LEGEND

● Soil Boring Locations

(0.0) Indicates highest OVA reading in PPM

NOTE: OVA - Organic Vapor Analyzer
PPM - parts per million
UST - Underground Storage Tank
bls - Below Land Surface



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SOIL BORING LOCATIONS DATA
CONFIRMATORY SAMPLING REPORT
BUILDING 825, TANK G825LS
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

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FIGURE 2-1

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surface (bls) and every 2 feet thereafter to the water table. Soil screening was conducted with an OVA-flame ionization detector (OVA-FID). As agreed upon in the Plan of Action (POA) (TtNUS, 2000b), no soil samples were collected for laboratory analysis.

3.0 SITE SCREENING RESULTS

Excessively contaminated soil was not detected in soil samples collected from the unsaturated zone during the confirmatory sampling. The general lithology of the soils excavated were silty fine-grained sands in various shades of gray and brown. The depth of the water table at the site was at about 7 feet bls. The soil OVA-FID data collected during the investigation is summarized in Table 3-1 and presented on Figure 2-1.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Since excessively contaminated soil was not detected during the investigation and in accordance with the SAP (TtNUS, 2000a) and the POA (TtNUS, 2000b), no groundwater investigation followed the soil screening. Supported by the previous investigation's similar findings (ABB-ES, 1997b), TtNUS recommends NFA for Tank G825LS.

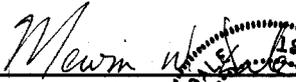
**Table 3-1
Summary of Soil Screening Data**

Confirmatory Sampling Report
Building 825, Tank G825LS
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA-FID Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Corrected
CEF-B825LS-SB-001	1	0.0	0.0	0.0
	3	0.0	0.0	0.0
	5	0.0	0.0	0.0
	7	0.0	0.0	0.0
CEF-B825LS-SB-002	1	0.0	0.0	0.0
	3	0.0	0.0	0.0
	5	0.0	0.0	0.0
	7	0.0	0.0	0.0
CEF-B825LS-SB-003	1	0.0	0.0	0.0
	3	0.0	0.0	0.0
	5	0.0	0.0	0.0
	7	0.0	0.0	0.0
CEF-B825LS-SB-004	1	0.0	0.0	0.0
	3	0.0	0.0	0.0
	5	0.0	0.0	0.0
	7	0.0	0.0	0.0
<p>Notes: The soil samples were collected on June 16, 2000. Soil samples were filtered with carbon to determine the methane concentration. The water table was encountered at 7 feet bls in the borings.</p> <p>Acronyms: OVA-FID = organic vapor analyzer-flame ionization detector. ppm = parts per million. bls = below land surface.</p>				

5.0 PROFESSIONAL REVIEW CERTIFICATION

The data contained in this report was prepared using sound hydrogeologic principles and judgement. This assessment is based on the geologic investigation and associated information detailed in the text and appended to this report. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the assessment described in this report. This CSR was developed for Tank G825LS at the former NAS Cecil Field, Jacksonville, Florida, and should not be construed to apply to any other site.



Mervin Dale
Florida Professional Geologist
P.G. No. 0001917



Date

REFERENCES

ABB-ES, 1994. *Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, November.

ABB-ES, 1997a. *Base Realignment and Closure Tank Management Plan, Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, January.

ABB-ES, 1997b. *Confirmatory Sampling Report, Building 825, Tank G825LS, Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, December.

TtNUS, 2000a. *Sampling and Analysis Plan for Site Assessment and Confirmatory Sampling at Various UST and AST Sites, Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, March.

TtNUS, 2000b. *Plan of Action No. GH01. Naval Air Station Cecil Field, Jacksonville, Florida.* Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, January.