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CONFIRMATORY SAMPLING REPORT FOR BUILDING 370 TANK 370G BASE REALIGNMENT AND CLOSURE NAS CECIL FIELD FL

9/1/2000

TETRA TECH NUS INC

Confirmatory Sampling Report
for
Building 370, Tank 370G

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

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CONFIRMATORY SAMPLING REPORT
FOR
BUILDING 370, TANK 370G
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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ACRONYMS

ABB-ES	ABB Environmental Services, Inc.
AST	Above Ground Storage Tank
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.

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 370G 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 370G was submitted by TtNUS (2000a).

Tank 370G is an aboveground storage tank (AST) located west of Building 371. The AST has a 250-gallon capacity and is used to store gasoline [ABB Environmental Services, Inc. (ABB-ES), 1994].

Confirmatory soil screening conducted by ABB-ES (1997) consisted of soil screening at four locations around the AST 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 in the report.

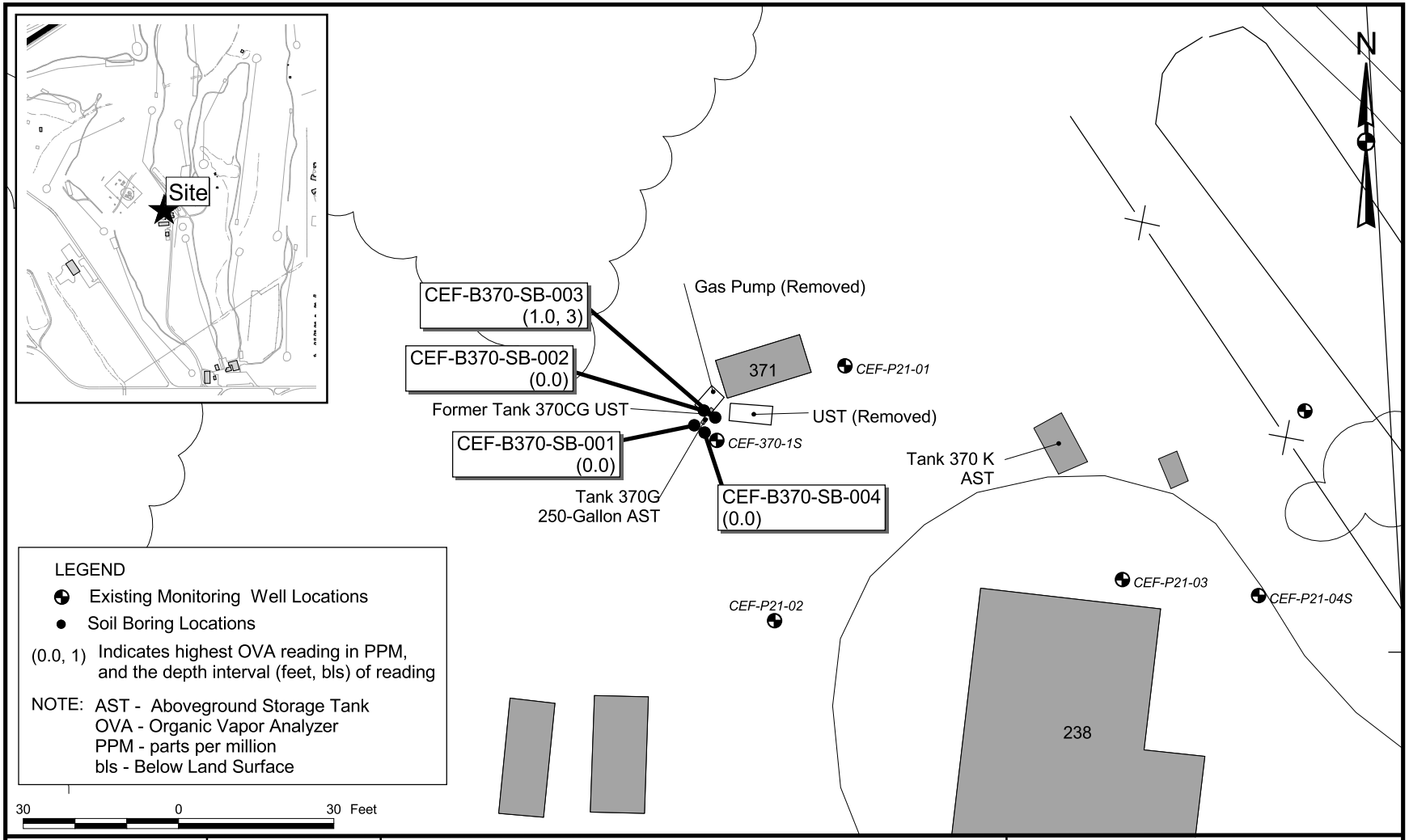
2.0 FIELD INVESTIGATION

The investigation was conducted between June 7 and 12, 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 370G (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 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 in the Plan of Action (POA) (TtNUS, 2000b), no soil samples were collected for laboratory analysis.



DRAWN BY MJJ	DATE 23Mar00	SOIL BORING LOCATIONS DATA CONFIRMATORY SAMPLING REPORT BUILDING 370, TANK 370 G NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 121
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2-1 / REV 0

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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 mostly silty fine-grained sands in various shades of gray and brown. Some gray clayey sand was encountered in boring CEF-0370-SB-004, which would account for the depth to water (7 feet bls) at that location. The depth of the water table at the remainder of the borings ranged from 4.5 to 5 feet bls. The soil OVA-FID data collected during the investigation are 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, 1997), TtNUS recommends NFA for Tank 370G.

Table 3-1
Summary of Soil Screening Data

Confirmatory Sampling Report
Building 370, Tank 370G
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA-FID Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Corrected
CEF-B370-SB-001	1	0.0	0.0	0.0
	3	0.0	0.0	0.0
	5	0.0	0.0	0.0
CEF-B370-SB-002	1	0.0	0.0	0.0
	3	0.0	0.0	0.0
	5	0.0	0.0	0.0
CEF-B370-SB-003	1	0.0	0.0	0.0
	3	1.0	0.0	1.0
	5	0.0	0.0	0.0
CEF-B370-SB-004	1	0.0	0.0	0.0
	3	0.0	0.0	0.0
	5	0.0	0.0	0.0
	7	3.0	3.0	0.0

Notes: The soil samples were collected on June 12, 2000.
Soil samples were filtered with carbon to determine the methane concentration.
The water table was encountered at 7.0 feet bls in SB-004 and at 4.5 - 5 feet bls in the other borings.

Acronyms:
OVA-FID = organic vapor analyzer-flame ionization detector.
ppm = parts per million.
bls = below land surface.

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 370G 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, 1997. *Confirmatory Sampling Report, Building 370, Tank 370G, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, November.

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.