

N60200.AR.002373
NAS CECIL FIELD, FL
5090.3a

SAMPLING AND ANALYSIS OUTLINE REPORT FOR BUILDING 593/543 BASE
REALIGNMENT AND CLOSURE REVISION 1 NAS CECIL FIELD FL
3/31/2000
TETRA TECH NUS INC

**Sampling and Analysis
Outline Report
for
Buildings 539/543
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 0078**

March 2000

**SAMPLING AND ANALYSIS OUTLINE REPORT
FOR
BUILDINGS 539/543
BASE REALIGNMENT AND CLOSURE**

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

**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT N62467-89-D-0088**

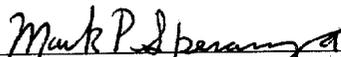
**Submitted to:
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406**

**Submitted by:
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, Pennsylvania 15220**

**CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0078**

MARCH 2000

PREPARED UNDER THE SUPERVISION OF:


MARK SPERANZA, P.E.
TASK ORDER MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA

APPROVED FOR SUBMITTAL BY:


DEBBIE WROBLEWSKI
PROGRAM MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA



CERTIFICATION OF TECHNICAL
DATA CONFORMITY

The Contractor, Tetra Tech NUS, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-94-D-0888 are complete and accurate and comply with all requirements of this contract.

DATE: March 31, 2000

NAME AND TITLE OF CERTIFYING OFFICIAL:

Mark Speranza, P.E.
Task Order Manager



The professional opinions rendered in this decision document identified as Sampling and Analysis Outline Report for Buildings 539/543, Naval Air Station Cecil Field, Jacksonville, Florida were developed in accordance with commonly accepted procedures consistent with applicable standards of practice. Decision documents are based on information obtained from others and under the supervision of the signing engineer. If conditions are determined to exist differently than those described in this document, then the undersigned professional engineer should be notified to evaluate the effects of any additional information on this project described in this report.

Mark P. Speranza
Mark Speranza, P.E.
Professional Engineer No. PE0050304

Date: 3/31/00

Mark Speranza

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE NO.</u>
CERTIFICATION.....	ii
PROFESSIONAL ENGINEER AUTHORIZATION	iii
ACRONYMS.....	v
1.0 INTRODUCTION	1-1
2.0 SAMPLING AND ANALYSIS OUTLINE.....	2-1
3.0 RESULTS AND PRELIMINARY RISK EVALUATION	3-1
4.0 CONCLUSIONS AND RECOMMENDATION.....	4-1
REFERENCES	R-1

APPENDICES

A LABORATORY ANALYTICAL DATA

FIGURES

<u>NUMBER</u>	<u>PAGE NO.</u>
1-1 Site Location Map.....	1-2

ACRONYMS

ABB-ES	ABB Environmental Services, Inc.
BCT	BRAC Cleanup Team
BRAC	Base Realignment and Closure
CTO	Contract Task Order
EBST	Environmental Baseline Survey for Transfer
EISOPQAM	Environmental Investigations Standard Operating Procedures and Quality Assurance Manual
NAS	Naval Air Station
PCB	Polychlorinated biphenyls
PRE	Preliminary Risk Evaluation
PWC	Public Works Center
TtNUS	Tetra Tech NUS, Inc.
U.S. EPA	United States Environmental Protection Agency

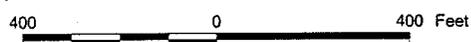
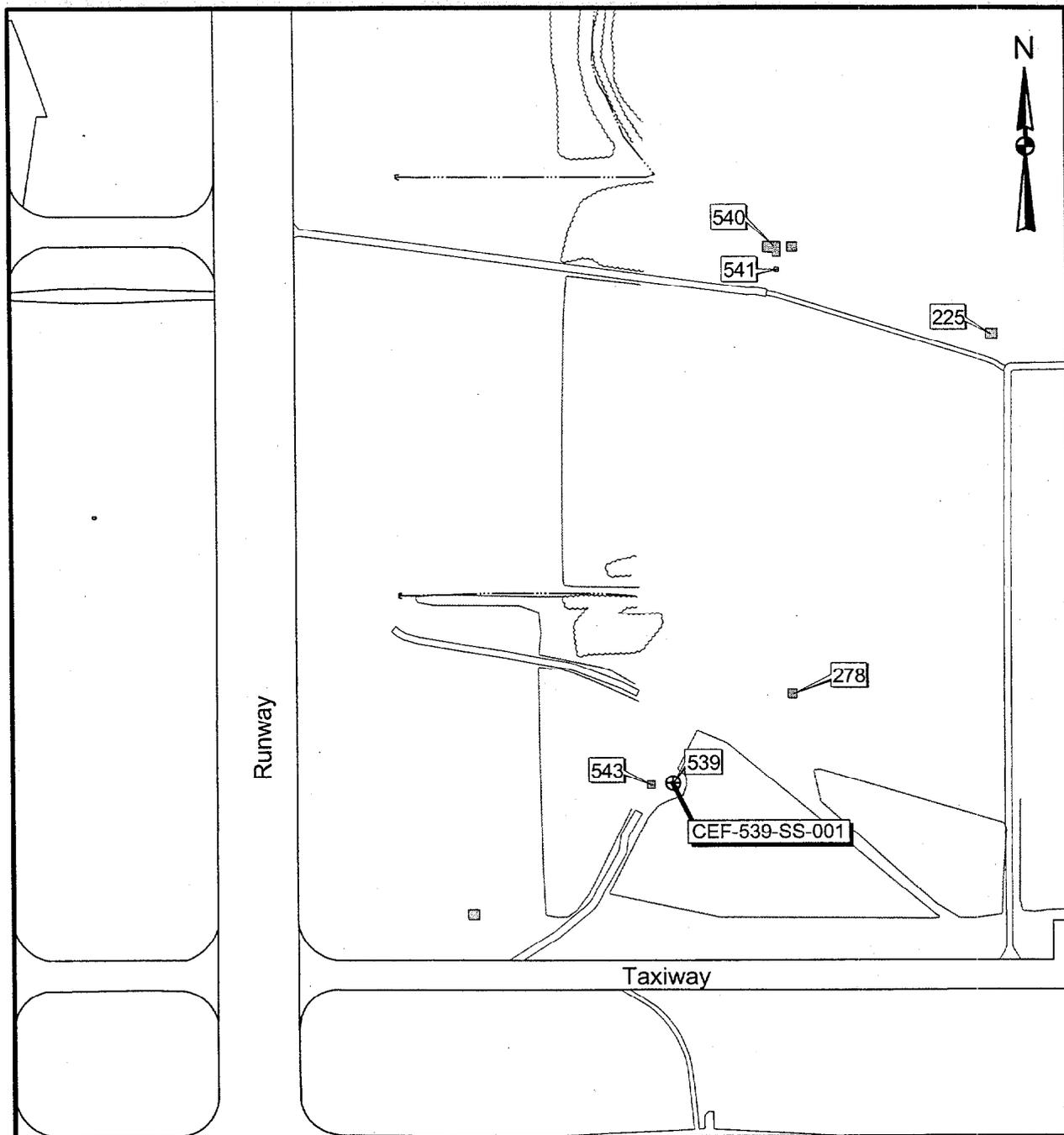
1.0 INTRODUCTION

Tetra Tech NUS, Inc. (TtNUS), under contract to Southern Division, Naval Facilities Engineering Command, completed sampling and analysis at Buildings 539/543 at Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. This program was conducted under Contract Number N62467-94-D-088, Contract Task Order (CTO) 0078. This report summarizes the related field operations, results, conclusions, and recommendations of the investigation.

This area includes Building 543 and the transformer area, Building 539. Building 539 consists of a fenced area enclosing a cluster of three pole transformers mounted on a concrete pad located east of Building 543. The locations of the buildings are shown on Figure 1.

During the site visit for the Environmental Baseline Survey for Transfer (EBST), stressed vegetation was noted within the transformer's fenced enclosure. No visual evidence of staining on the transformers themselves or on the concrete pad was noted during the EBST site visit or the sampling event. Based on information from the 1997 polychlorinated biphenyl (PCB) survey, the PCB content of these transformers is not known. Current inventory information obtained in June 1999 from (NAS) Jacksonville PWC personnel indicates a PCB content of 10 ppm for these three transformers. However, there is no information regarding replacement or retrofitting of the transformers. Because of the uncertainties about the previous PCB content of the transformers and the presence of stressed vegetation, the site was classified as Grey.

The observed stressed vegetation area was observed mainly within the fenced area. This may suggest the application of weed killer to the area by NAS Cecil Field grounds maintenance crews to reduce the need to mow grass within the fenced area. However, this information could not be confirmed, and therefore the possibility that this stressed area may be the result of historical oil leakage was considered. The Base Realignment and Closure (BRAC) Cleanup Team (BCT) requested that sampling be conducted to confirm the absence of presence of PCBs in this area.



LEGEND	
	Soil Sample Locations

DRAWN BY MJJ	DATE 24 June 99
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



SITE LOCATION MAP
BUILDINGS 539 AND 543 AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

CONTRACT NUMBER 0039	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO. FIGURE 1-1	REV 0

P:\GIS\Cecil\blgd539-543.apr 27Oct99 MJJ Bldg 539 & 549 Layout

2.0 SAMPLING AND ANALYSIS OUTLINE

The Sampling and Analysis Plan for the assessment of this site was prepared by TtNUS and approved by the BCT (TtNUS, 1999).

The objective of this sampling was to confirm the absence or presence of PCBs in the soil near the transformer cluster. One surface soil sample (CEF-539-SS-001-01) was collected from 0 to 1 foot below ground surface within 1 foot of a transformer drain and was analyzed for PCBs. The sample location is shown on Figure 1.

3.0 RESULTS AND PRELIMINARY RISK EVALUATION

No PCBs were detected in this sample; therefore, a human health Preliminary Risk Evaluation (PRE) and an ecological risk assessment are not required at this site. Analytical data are presented in Appendix A.

4.0 CONCLUSIONS AND RECOMMENDATION

Based on the fact that PCBs were not detected in the soil sample collected, no remedial action or further investigation is recommended for this area. No other environmental concerns have been identified for this facility. Based on the findings of this evaluation, the color code for Buildings 539/543 should be reclassified from Grey to White.

REFERENCES

ABB-ES (ABB Environmental Services, Inc.), 1994. Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida. Tallahassee, FL.

Tetra Tech NUS, Inc. (TtNUS), 1999. Sampling and Analysis Plan, Buildings 538/543, Naval Air Station Cecil Field, Jacksonville, Florida. Prepared for Southern Division Naval Facilities Engineering Command, North Charleston, South Carolina, June.

TtNUS, 1998. Base-Wide Generic Work Plan, Naval Air Station Cecil Field, Jacksonville, Florida. Prepared for Southern Division Naval Facilities Engineering Command, North Charleston, South Carolina, October.

United States Environmental Protection Agency (U.S. EPA), 1996. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (EISOPQAM), May.

APPENDIX A
LABORATORY ANALYTICAL DATA



Tetra Tech NUS

INTERNAL CORRESPONDENCE

TO: MR. MARK SPERANZA **DATE:** AUGUST 2, 1999
FROM: LINDA KARSONOVICH **COPIES:** DV FILE
SUBJECT: ORGANIC DATA VALIDATION- PCB
 CTO 078, CECIL FIELD
 SDG F4498
SAMPLES: 1/Solid/
 CEF-539-SS-001-01

OVERVIEW

The sample set for CTO 078, Cecil Field, SDG F4498, consists of one (1) solid environmental sample. The sample was analyzed for polychlorinated biphenyls (PCBs) as per the Technical Statement of Work.

The sample was collected by TetraTech NUS on July 13, 1999 and analyzed by Accutest Laboratory. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8082 analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

- * • Data completeness
- * • Holding times
- * • Initial/continuing calibrations
- * • Laboratory method blank results
- * • Surrogate spike recoveries
- * • Matrix Spike/Matrix Spike Duplicate Results
- * • Blank Spike/Blank Spike Duplicate Results
- * • Compound Identification
- * • Compound Quantitation
- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A.

All data quality parameters were met. No qualifiers were assigned to the data.

EXECUTIVE SUMMARY

Laboratory Performance Issues: None.

Other Factors Affecting Data Quality: None.

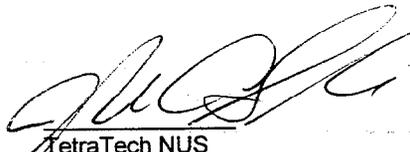
The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (2/94) and the NFESC guidelines "Navy Installation Restoration Program Laboratory Quality Assurance Guide" (February, 1996). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."



TetraTech NUS

Linda Karsonovich
Chemist/Data Validator



TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Report of Analysis

Client Sample ID: CEF-539-SS-001-01	Date Sampled: 07/13/99
Lab Sample ID: F4498-1	Date Received: 07/14/99
Matrix: SO - Soil	Percent Solids: 94.1
Method: SW846 8082	
Project: NAS Cecil Field	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AB09652.D	1	07/15/99	SKW	07/15/99	OP870	GAB364
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	ug/kg	
11104-28-2	Aroclor 1221	ND	35	ug/kg	
11141-16-5	Aroclor 1232	ND	35	ug/kg	
53469-21-9	Aroclor 1242	ND	35	ug/kg	
12672-29-6	Aroclor 1248	ND	35	ug/kg	
11097-69-1	Aroclor 1254	ND	35	ug/kg	
11096-82-5	Aroclor 1260	ND	35	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	122%		40-150%
2051-24-3	Decachlorobiphenyl	99%		30-160%

ND = Not detected
 RDL = Reported Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

00007

APPENDIX C
SUPPORT DOCUMENTATION

F4498

HOLDING TIME

07/21/99

Units	Nsample	Lab Id	Qc Type	Sdg	Sort	Samp Date	Extr Date	Anal Date	SAMP_DATE TO EXTR_DATE	EXTR_DATE TO ANAL_DATE	SAMP_DATE TO ANAL_DATE
UG/KG	CEF-539-SS-001-01	F4498-1	NORMAL	F4498	PCB	07/13/99	07/15/99	07/15/99	2	0	2