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NAS CECIL FIELD, FL
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SAMPLING AND ANALYSIS REPORT ADDENDUM FOR BUILDING 540 BASE
REALIGNMENT AND CLOSURE NAS CECIL FIELD FL
10/15/1999
TETRA TECH NUS INC

**Sampling and Analysis Report
Addendum
for
Building 540
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

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**SAMPLING AND ANALYSIS REPORT ADDENDUM
BASE REALIGNMENT AND CLOSURE
BUILDING 540**

This addendum to the Sampling and Analysis Report (SAR) for Building 540 (ABB Environmental Services, Inc., November 1997) documents the comparison of groundwater sampling results to background hi-cut values.

The second paragraph of Section 3.1 (Public Health PRE) is revised as follows:

Seventeen analytes, including one volatile organic compound and 16 inorganic analytes were detected in the groundwater sample collected in the study area. A comparison among concentrations of detected analytes in groundwater, RBCs for tap water, and FDEP GGC is presented in Appendix A. Aluminum (477 and 985 µg/L), iron (5,700 and 5,910 µg/L), and thallium (2.5 and 2.7 µg/L) were detected in groundwater at concentrations exceeding FDEP guidance concentrations. However, the detected concentrations were less than their respective hi-cut values (aluminum – 13,100 µg/L; iron – 7,760 µg/L; and thallium – 13.3 µg/L). Arsenic was detected at concentrations exceeding the tap water RBC. However, the arsenic concentrations (3.6 and 4.0 µg/L) were also below the hi-cut value of 7.1 µg/L.

The first paragraph of Section 4.0 (Conclusions and Recommendations) is revised as follows:

A cumulative HI of 1.8 and an ELCR of 8.9E-5 were calculated for the detected analytes in groundwater. Arsenic was detected at a concentration in excess of the RBC for tap water, but below the background hi-cut value of 7.1 µg/L and the GGC of 50 µg/L. It is the only analyte contributing to carcinogenic risk. Additionally, arsenic is naturally occurring at NAS Cecil Field and may not represent a release from the site. The noncarcinogenic HI is primarily attributable to antimony, iron, and thallium, which affect different organs. The HI for any target organ is less than 1, indicating that it is unlikely that exposure to these chemicals will result in adverse health effects. In addition, the detected concentrations of these metals were all below their respective background hi-cut values.

The color code is unchanged and remains Light Green.