

**SITE REMEDIATION/RESTORATION
CAPE CANAVERAL/PATRICK AFB
CAPE CANAVERAL, FL**



CLIENT

USACE / IDIQ Contract
Task Orders 1 and 2

PROJECT FEATURES

Environmental Restoration/
26 CCAFS Sites
and 14 PAFB Sites
TSCA / non-TSCA Soil Remediation
Environmental Controls
Transportation / Disposal
RAP and HASP Preparation
Data Collection / Validation
Occupied / Sensitive Sites*

COMPLETION

2010-2011

PROJECT DESCRIPTION

Work under the USACE task orders includes the environmental restoration of 26 CCAFS sites. Work was performed under the direction of the IRP (Installation Restoration Program) and the 45th Space Wing Command. Initial interim measures included horizontal/vertical delineation of TSCA and non-TSCA and non-hazardous metals contaminated soils. In addition, monitoring wells and direct push technology (DPT) were utilized to determine contamination limits.

Remediation consisted of excavation, management, transportation and disposal of 6,755 CY of contaminated soils. Several sites were in sensitive and active areas of the CCAFS. Restoration included backfilling, compaction and installation of sod, asphalt and concrete.

At PAFB, TANTARA performed low-level non-TSCA PCB remediation at active military housing locations. Remediation required detailed planning, notification and coordination with residents, the housing authority, the Air Force, the Navy and the Florida DEP. Due to the sensitive nature of the site, TANTARA conducted stringent dust control, excavation techniques, and environmental monitoring. Restoration included sod installation, concrete and asphalt. A total of 1,840 CY of soil were remediated/transported to an inactive landfill on base where it was utilized for shaping and contouring and to bring landfill elevation to pre-closure grade. TANTARA then constructed a natural cap and completed landfill closure.

At PAFB, TANTARA also performed the remediation of 14 sites impacted with non-TSCA PBC and metals-contaminated soils. A notable project was the surgical excavation under the active water tower that supplied all potable water for the base. Approximately 1,850 CY of material were remediated.

TANTARA prepared interim measures remedial action plans (RAPs) for three categories of sites. These plans were reviewed and approved by Florida DEP, the Air Force and the IRP. In addition, we prepared a detailed Health and Safety Plan (HASP) as well as a Sampling Plan. Over the course of the project, TANTARA sampled over 500 location data points.

TANTARA performed field locations utilizing GIS and to finalize locations of all sampling points. Detailed plans were developed for the IRP's database. Data testing was performed by a state-certified lab, and Tier III data validation was performed for the final close out reports.

** The sensitivity of the Kennedy Space Center required extensive management and coordination in performing work with NASA operations including critical no-excavation days due to rocket launches, sensitivity to installations and strict control over buried communication lines.*