Commercial Project
Saipan

Project Name: Tanapag Village Site Remediation

Project Location: Tanapag Village, Saipan, NMI

Owner: US Army Corps of Engineers

Consultant: Environmental Chemicals Corporation

Time Frame: July '97 - August, '98

Site Information: A site with an area of approximately 20,000 square feet was designated as the area for the staging of stockpiled soils, and the installation of TerraTherm's treatment cells and associated batch process equipment.

CoCs: Polychlorinated Biphenyls (PCBs). Concentrations were represented to average 200 ppm, but in fact concentrations averaged 500 ppm (Aroclors 1254 and 1260), and individual batches in excess of 10,000 ppm.

Soil Characteristics: The treated soils were gathered from multiple sites on the island of Saipan. Soils consisted of silty sands and crushed coral.

Groundwater: No groundwater impact during project duration. Stockpiled soils and treatment cell were subjected, however, to surface-level water saturation due to (5) typhoons and additional seasonal rainstorms.

Project Goals: Remediation of 1000 yards of PCB-contaminated soil through the application of thermal blankets to achieve cleanup criteria of 10 ppm.

Project Approach: Construction of four treatment cells to accommodate the placement of seven (7) thermal blankets each - soil was simultaneously placed in two (2) treatment cells and thermally treated. Each cell was sized to handle approximately 40-45 yards each.

Project Staffing: Site personnel consisted of a project manager, a project engineer, 6 environmental technicians/operators, a contract electrician, and a contract mechanics/pipe fitter.

Subcontracting: TESI subcontracted the site preparation, equipment repair and laboratory services.

Shell-ATL Support: Provided technical support throughout the project.

Project Time Line: TESI mobilized to the site in July 1997. Site construction was performed from July 1997 through August 1997. Thermal treatment was started in September 1997 and was completed in August 1998. Demobilization took approximately 3-4 weeks.

Project Results: TESI treated 1,000 cubic yards of PCB impacted soil to 10 ppm or less.