

United States Marine Corps Bases Condition Inspection & MicroPAVER Pavement Management System Implementation



As part of a subcontract with Geo-Environmental Resources (GER), Applied Pavement Technology, Inc. (APTech) conducted pavement inspections and implemented the MicroPAVER pavement management system at two Marine Corps bases in South Carolina: Marine Corps Air Station (MCAS) Beaufort and Marine Corps Recruit Depot (MCRD) Parris Island. MCAS Beaufort hosts all active duty east coast United States Marine Corps air operations, with the mission of providing an operational base for anti-air-warfare and offensive air operations in support of Marine Forces from advanced bases, expeditionary airfields, or aircraft carriers. MCRD Parris Island is one of two Marine Corps training centers in the United States. The work involved in this project, performed for the Naval Facilities Engineering Service Center, included approximately 80 lane-miles of roadway pavement over the combined pavement networks.

To support the day-to-day efforts of the Department of Defense at these bases, APTech collected pavement condition data, video images, International Ride Index, Ride Numbers, and rutting data using automated video survey equipment. After interpreting the videos by using sophisticated software that allowed high-resolution digital images to be viewed on a computer, the pavement condition data were entered into a MicroPAVER pavement management database to determine the pavement condition index. APTech adhered to a comprehensive quality-control plan to ensure the accuracy of the data.