

## Soil Analysis of Samples from Areas Adjacent to the Truck Gravel Course and Mesa Dust, U.S. Army Yuma Proving Ground

The goal of this project was to provide a summary of field-related tasks and soil characterization results. The work was conducted at selected sites at the Yuma Proving Ground (YPG), AZ and reported in 2010. We were asked to conduct this work to assist YPG with the expansion of the test course area(s) that occur in the desert landscape, which is a complex mosaic of landforms of varying ages, soil conditions, and geotechnical properties.

Summary of Project Details: We identified dust-rich sties in the vicinity of the Truck Gravel Course near the Hot Weather Test Track and at another site referred to as Mesa Dust. We conducted particle size analysis and soil texture from samples collected at the sites.

Management Implications: Our results found fines that are typically from old desert pavement soil, and that the soils are primarily silt loams. Mesa Dust results showed loam and silty clay loam on the surface. We reported to YPG that these sites have a sufficient amount of dust and gravel to provide dusty unimproved road conditions. We produced a number of maps to assist in locating and visualizing our results.

