

# INITIAL SITE ASSESSMENT AND PRELIMINARY SITE INVESTIGATION

## I-880 LANE WIDENING PROJECT SANTA CLARA COUNTY

BASELINE performed an Initial Site Assessment and a Preliminary Site Investigation for the Interstate 880 High Occupancy Vehicle (HOV) Lane Widening Project for the Santa Clara Valley Transportation Authority. The project involves the construction of HOV lanes along approximately 4.5 miles of Interstate 880 between U.S. Highway 101 and State Route 237 in the cities of San Jose and Milpitas. The Initial Site Assessment and Preliminary Site Investigation were performed in accordance with ASTM E1527-05 and Chapter 10 of the Caltrans Environmental Handbook. The Initial Site Assessment identified and ranked the level of risk associated with soil contamination from organochlorine pesticides, Title 22 metals, and aerially-deposited lead (ADL). Approximately 250 soil samples were collected from 80 borings along both sides of the highway and analyzed for ADL and other contaminants of concern. Soil samples were evaluated to determine if the soils were



considered a California or federal hazardous waste and if the Lead Variance granted by the Department of Toxic Substances Control (DTSC) to Caltrans was applicable to the project. In accordance with guidance from EPA SW-846, ProUCL software was used to calculate 90 percent upper confidence limits for lead concentrations in soil to determine the appropriate waste classifications. The 95 percent upper confidence limits for lead concentrations in soil were also calculated to

support relinquishment of soils to the construction contractor in accordance with Caltrans standard special provisions.

Soils classified as non-hazardous waste were screened against the DTSC California Human Health Screening Levels for commercial/industrial land uses to evaluate potential reuse options within the project alignment. All soils were also screened against San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for construction workers to evaluate potential health risks from direct exposure to contaminated soils without specific health and safety provisions.