



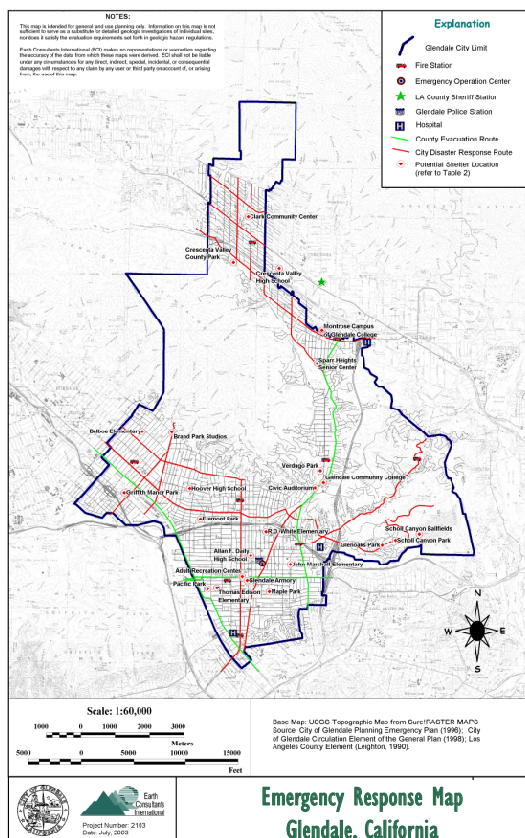
HAZARD ASSESSMENT ANALYSIS FOR THE SAFETY ELEMENT OF THE GENERAL PLAN City of Glendale, California

PROJECT DESCRIPTION

The City of Glendale is located at the southeasternmost edge of the San Fernando Valley, in an area characterized by sharp contrasts in terrain. While the City is susceptible to a variety of natural and man-made hazards, the event with the greatest potential for loss of life, property damage and economic destruction is an earthquake. In addition to ground shaking and surface rupture caused by earthquakes, Glendale is also susceptible to various other hazards such as landslides, wildfires, dam failures, toxic chemical releases, and foundation failures caused by liquefaction and subsidence. Other issues that the City asked us to address included civil unrest and vector control.



Slope Burnt During the September 9-11, 2002 Fire in Glendale



SOLUTION

Earth Consultants International conducted a study that addresses the naturally occurring conditions that pose a hazard to Glendale, including fault rupture, strong ground shaking, liquefaction, slope instability, wildfires, and storm flooding. Using HazUS™, we performed loss estimations for earthquake scenarios on the Raymond, Sierra Madre, and San Andreas faults. We also created GIS-based maps that include known and inferred fault locations, fault hazard management zones, potential liquefaction zones, potential dam failure-inundation areas, Uniform Building Code (UBC) soil types and near-source seismic zones, regions of slope and soil instability, and significant users of hazardous materials. Finally, we prepared a Policy Document that identifies goals, policies and action items that the City can implement to reduce its hazards.

