

## Related Project Experience - The Sanberg Group, Inc.

### PROJECT TITLE AND LOCATION:

Aquifer Test; City of Bell Police Department, California

### YEAR(s) PROFESSIONAL SERVICES PROVIDED:

January through April 2007

### BRIEF DESCRIPTION OF PROJECT:

TSG was retained to perform an aquifer test at the City of Bell Police Department property, and adjoining Fire Department property to provide a preliminary assessment of the hydrogeologic conditions beneath the site. The test was performed over a two-day period



and was implemented in two phases. The first phase included a step-drawdown test to estimate the optimal discharge rate for the second phase constant discharge test.



During testing, water levels were monitored and discharge water impacted with fuel hydrocarbons was transferred to an above ground tank for temporary storage. Prior to and during the testing activities, depth to groundwater measurements was collected manually in the discharge and observation wells, and electronically using pressure transducers in selected wells. The data were then input into a groundwater pumping test analysis program (AQTESOLV for

Windows) for evaluation of aquifer parameters. Based on the results of the aquifer modeling, an unconfined and/or leaky aquifer condition solution appears to dominate the subsurface flow in the area of the pump test. Based on this evaluation, aquifer parameters including transmissivity, hydraulic conductivity and storage were estimated. These results were used by the client and regulatory oversight agency to design a treatment system to remediate the impacted groundwater.

