

## **Attachment 8: Quality Assurance**

### **Identification and Evaluation of Groundwater Recharge in Butte County**

### **Quality Assurance**

The project will be subjected to quality assurance through the imposition of standard methodologies, utilization of qualified scientific professionals and a collaborative review process.

#### **Standard Methodologies**

**Geophysical Survey** - ASTM International has established a number of standards relevant to the geophysical investigation of groundwater. The ASTM Standard Guide for Selecting Surface Geophysical Methods (D6429) provides a source for describing the usefulness of geophysical methods and provides a set of standard methodologies. Given the specialized nature of conducting a geophysical investigation, a successful approach would require the development of well-developed objectives.

**Water Analyses** - The study design may include the collection and analysis of water samples. The procedures and methods to collect and analyze surface water and groundwater samples will include specifications on the frequency, analytes, chain of custody and other QA/QC procedures. Participating analytical laboratories will be required to be accredited under California Department of Public Health Environmental Laboratory Accreditation Program (ELAP). The ELAP-accredited laboratories have demonstrated capability to analyze environmental samples using approved methods. The National Environmental Laboratory Accreditation Program (NELAP) granted recognition of ELAP on July 1, 1999, to be the NELAP Accrediting Authority for California.

**Boring Logs** - Soil cores (boring logs) will be characterized by a California Professional Geologist proficient in the methods described in ASTM Designation: D2488-84 method for visual classification, Standard Practice for Description and Identification of Soils (Visual Manual Procedure) or other appropriate methodology.

#### **Collaborative Review**

The draft of the project deliverables will be subject to public and professional review. The Water Commission serves as a public venue for reviewing projects and program activities. The Butte County Water Commission is a nine member body appointed by the Board of Supervisors. Five members are appointed by each of the Board of Supervisors; an additional two must be served by groundwater and another two by surface water. The Water Commission is the principle advisory body to the Board of Supervisors on water resource issues. The development of the countywide groundwater recharge map will be brought to the Water Commission at key junctures for comment and input. The Butte County Water Commission has a Technical Advisory Committee (TAC) that will be utilized to review the development of the countywide groundwater recharge map and groundwater recharge

investigation. In addition to the TAC, other technical collaborators such as NRCS, Butte County Department of Development Services, etc. will be asked to provide technical comments on the project.