

SAMUEL COLE

State Water Resources Control Board, Division of Water Rights
1001 I Street, 14th Floor, Sacramento, CA 95814
Telephone: (916) 341-5345 Email: Samuel.Cole@waterboards.ca.gov

Education

California State University, Sacramento
Bachelor of Science, Mechanical Engineering, December 2010

Professional Registration

California Professional Engineer in Mechanical Engineering, Thermal and Fluid Systems Design
Certificate No. M 37000

Certificates of Professional Development

- The National Judicial College, The Fundamentals of Water Rights
- Cal Poly State University, ITRC, Irrigation System Evaluation Short Courses

Employment and Experience

March 2, 2011 to Present: Water Resource Control Engineer, Enforcement Unit 2, Division of Water Rights, State Water Resources Control Board, Sacramento.

Duties include: Performing statewide investigations of municipal, agricultural, industrial and recreational water projects to make determinations on unauthorized diversions and verify compliance with terms and conditions of water right permits, licenses, registrations and court ordered decrees. Conducting inspection/criminal warrant as well as consent based inspections primarily throughout Northern California and the Central Valley, based on State policies and complaints, to identify and inspect water diversions without a known basis of right both as an independent Division investigation and as a participating member of a Joint Agency Task Force. Assisted in pioneering the Division's use of remote video surveillance during the recent California drought for monitoring unauthorized diversions typical to critically dry watersheds such as bulk water hauling via tanker trucks. Duties performed during inspections include taking field measurements and documenting observations to determine if an alleged diversion diverts water subject to the State Water Board's permitting authority or an alternative claimed basis of right. Field measurements collected include, but are not limited to, determinations of dam height, GPS logging water surface area and stream channels, GPS logging place of use, flow measurements, documenting tanks, bladders and other storage vessels, inspecting supplemental water sources, deploying time lapse surveillance cameras and general observations. An inspection report and findings letter, including analysis, maps, photos, findings and recommendations for the diverter and/or for the Division are drafted based on data collected throughout the field inspection in addition to any information that may already be on file with the Division, or was developed through desk-inspection of available data. When enforcement action is recommended, a notice of proposed cease and desist order and/or administrative civil liability complaint is produced for review by senior and upper management.

November 2007 to March 2011: Engineering Intern, SWRCB, Division of Financial Assistance

Duties: Troubleshooting and maintenance of Loans and Grants Tracking System, Oracle and Access based database system for staff engineers and project managers. Responsible for document management for Waste Water and Recycled Water Treatment facility project funding. Designed and programmed Microsoft Excel tables, tracking sheets and documents with complicated in-cell, inter-sheet programming as well as VBA coding with GUI's used for analyzing data and increasing workflow. Assisted project engineers with day to day tasks.