

---

**Pravani Vandeyar**  
Water Quality Superintendent  
City of Sacramento, Department of Utilities

---

**Professional Experience**

---

**Water Quality Superintendent July 2013 to present**

**Out of Class Water Quality Superintendent Oct 2012 to June 2013**

City of Sacramento, Department of Utilities—Sacramento, CA

Manage the operations of the laboratory in compliance with the Environmental Laboratory Accreditation Program (ELAP), to perform sample analyses for various regulatory programs. Provide regulatory, chemical and microbiological support and expertise for various programs within the City. Primary liaison with State Division of Drinking Water (DDW). Monitor water quality to ensure adherence to State and Federal regulations for drinking water. Work with operations staff to resolve operational/regulatory issues at the treatment plants, wells and/or distribution system. Represent the department in meetings involving regulatory and program requirements. Provide technical review of developing local, state and federal regulations and advise city staff on impacts to city operations. Research the impact of new and proposed regulations on operations. Provide commentary to regulators on upcoming regulations. Plan, direct and conduct research projects to improve, economize and troubleshoot treatment procedures and practices. Respond to water quality emergencies.

**Supervising Water Quality Chemist**

City of Sacramento, Water Quality Laboratory—Sacramento, CA— Jan 2007 to Mar 2013

Coordinate, review work, supervise and mentor the professional, technical and clerical laboratory staff. Provide training and orientation of laboratory safety, policies and procedures. Supervise and conduct the chemical, physical and bacteriological analysis of water and waste water using Environmental Protection Agency (EPA) and Standard Methods methodology to determine regulatory compliance. Provide advisory and analytical support for the water quality programs within the city including the maintenance of drinking water quality at the treatment plants, wells and in the distribution system. Monitor water regulations to ensure the City complies with regulations and State drinking water permits. Prepare work programs and laboratory budget. Establish new laboratory techniques and Standard Operating Procedures. Prepare reports of findings for laboratory projects and maintain records of laboratory activities. Review the interpretation and evaluation of analytical results; validate the reasons for problems; and approve the recommended corrective measures. Perform research and experimental work and devise, maintain, and evaluate experimental equipment and procedures for meeting state and federal regulatory standards. Develop and implement the laboratory's quality assurance and quality control standards and prepare quality control reports required for maintaining the laboratory's certification. Perform audits to evaluate adherence to policies, procedures and regulation. Respond to water quality emergencies. Oversee the management and use of Laboratory Information Management System (LIMS). Assist with programming modifications to the LIMS.

Additional duties performed:

Manage the operations of the laboratory in compliance with the Environmental Laboratory Accreditation Program (ELAP), to perform sample analyses for various regulatory programs. Provide regulatory, chemical and microbiological support and expertise for various programs within the City. Monitor water quality to ensure adherence to State and Federal regulations for drinking water. Represent the department in meetings involving regulatory and program requirements. Provide technical review of developing local, state and federal regulations and advise city staff on impacts to city operations. Research the impact of new and proposed regulations on operations.

**Senior Project Manager**

STL Inc.—Sacramento, CA— Aug 2002 to Jan 2007

Responsible for managing the accounts of major government entities, industrial and engineering firms that encompass various regulatory programs. Responsibilities included acceptance and initiation of projects into the laboratory, communication of client specific requirements to the lab, coordination and review of analytical laboratory projects for both government and commercial clients. Project management included recommendation of appropriate tests and methods depending on regulatory requirements for client program, project LIMS set-up, Quality Assurance Program Plan (QAPP) preparation and review, and final report review.

As required assisted in the setup of new methods and research of problem tests. Defend and interpret data. Reviewed analytical data for integrity and compliance with client program requirements. Recommend appropriate testing depending on regulatory program requirements.

### **Lead Chemist/Supervisor - General Chemistry**

STL Inc. –Sacramento, CA—May 2001 to Aug 2002

Analysis of various types of environmental samples including drinking water, water, wastewater, hazardous waste, solid waste and air samples on various instruments. Training of analysts in the analysis of samples on these instruments as well as troubleshooting and maintenance. Supervision of analysts in General Chemistry to ensure the work of the department was performed on time and efficiently. Review of data for quality and accuracy. Defend and interpret data. Recommend appropriate testing. Research and implement new methods.

### **Senior Scientist/Supervisor General Chemistry/Metals**

The Council for Mineral Technology—Randburg, South Africa— Jan 1997 to Apr 2001

Analysis of various types of environmental samples including water, wastewater, hazardous waste and air samples on various instruments. Training of analysts in the analysis of samples on these instruments as well as troubleshooting and maintenance. Supervision of analysts to ensure the work of the department was performed on time and efficiently. Review of data for quality and accuracy. Communication with clients on research and project requirements. Presentations to clients on research and project conclusions. Member of the Innovation Task Force. This group was tasked with Research and Development (R&D) related to mining research (extraction of metals from ores) and environmental research (ensuring that processes do not impact the environment). The R&D work entailed working with metallurgical, electrical, chemical, mechanical and civil engineers; local and international regulators such as the Environmental Protection Agency and the European Commission (on the environment) to determine feasibility of international environmental regulation for the South African environment. My position on the task force as a chemist resulted in me becoming the primary liaison for the task force with regulatory agencies.

### **Scientist-in-Training**

The Council for Mineral Technology—Randburg, South Africa— May 1996 to Jan 1997

Analysis of various types of environmental samples including water, wastewater, hazardous waste and air samples on ICP, ICP/MS, AA, Autoanalyzers, IC, UV-Vis, TOC, EM and HPLC including troubleshooting. Research and development of analytical methods. Research of metal extraction efficiencies.

### **Education**

---

- BSc in Chemistry – University of the Witwatersrand—Johannesburg, South Africa—1995
- MSc in Chemistry – University of Pretoria—Pretoria, South Africa –2001
- Water Treatment Operator T2-State Water Resources Control Board Division of Drinking Water-2016