

CCWD Construction Department:

The Construction Department strives to provide the highest quality construction at the lowest possible cost completed ahead of schedule. Typical construction projects include water treatment plant improvements (e.g. new ozone generators and seismic upgrade to sedimentation basins), pumping plant and steel reservoir rehabilitation work, pipeline installations, and open canal improvements.



Assignment/Description:

Provide construction project assistance: Support and provide assistance on current construction projects by developing change orders and preparing independent construction cost estimates.

Conduct field engineering quality control: Gather field data to assist in verification of change order claims and assist in quality control.

Review contractor material submittals, cut sheets and shop drawings: Conduct a thorough review of contractor material submittals and contract documents to ensure all required submittals are provided.

Develop project addendums: Assist in developing addendums for projects out to bid and responses to contractors Request for Information (RFI).

Develop cost estimating database: Develop a new comprehensive cost estimating database utilizing past change orders and consolidating several existing spreadsheets.

Assist with claims management: Document pre and post construction site conditions for claims management with photos, video, and inspection reports.

Perform field assignments related to the Alternative Intake Pipeline Project

www.ccwater.com/aip.asp : (project includes a new intake and pump station, 2 miles of 72-inch pipeline, and a tunnel under Old River). Augment the project team at the construction site and perform tasks including:

- Construction observation/documentation
- Verifying compliance with specifications
- Reviewing contractor submittals & schedules
- Downloading geotechnical instrumentation
- Compiling instrumentation data
- Special projects/assignments as they arise

Questions? Call Cheryl Martinez in CCWD Human Resources at (925) 688-8035 or send her an e-mail at

CCWD Delta Projects:

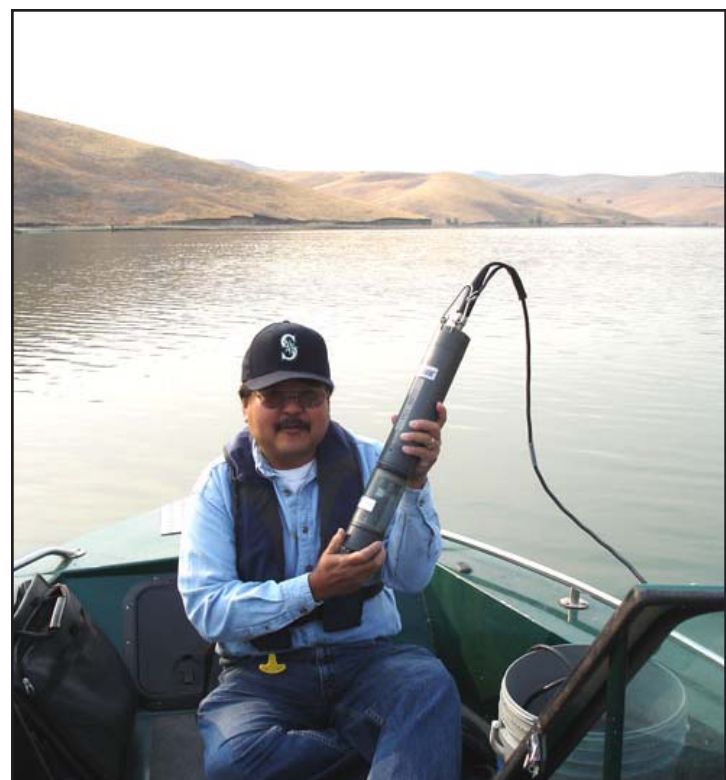
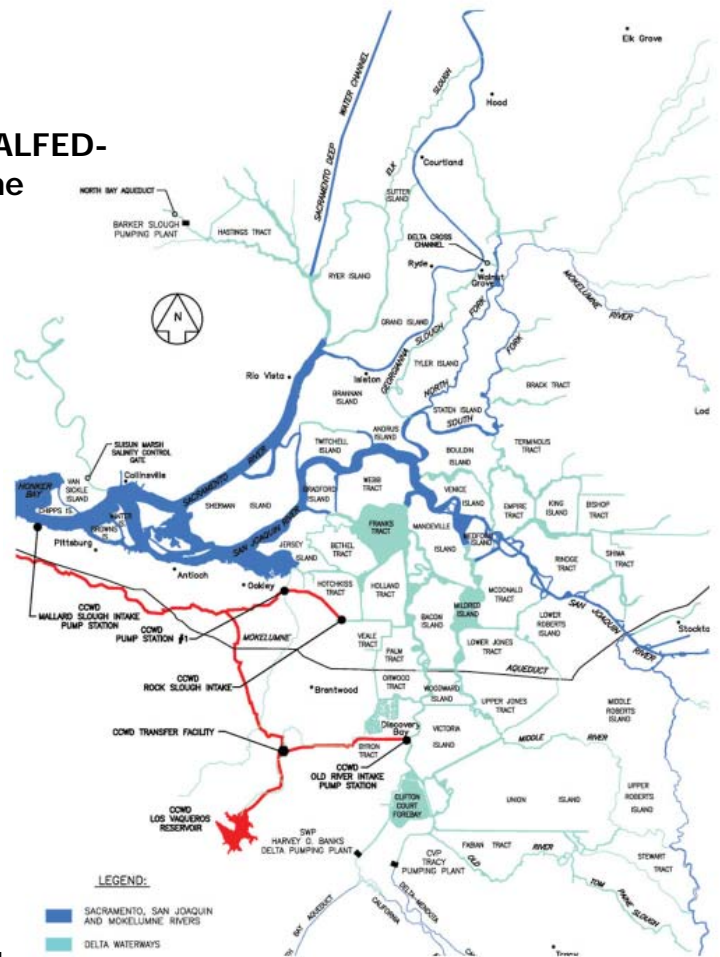
The Delta Projects Department manages CALFED-funded projects for the District, including the Los Vaqueros Reservoir Expansion Project. An Environmental Impact Report and Feasibility Studies are currently being developed for the expansion project.

Assignment/Description:

Collect field data: Tasks may include water quality sampling and biological monitoring in Los Vaqueros Reservoir and the Delta. These tasks may involve working on boats.

Perform data analysis: Support ongoing data analysis related to Delta water resources, including water quality, hydrodynamic, or fishery data.

Provide technical project support: Tasks may include technical support for environmental or engineering feasibility studies, and working with the Water Resources Department to perform modeling analyses.



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CCWD Engineering Department:

The Engineering Department provides services and technical support to the wide variety of District projects and activities. Typical projects include design of capital improvement projects (pipelines, pump stations, energy recovery projects, canal improvements, etc.), evaluations of existing facilities and technical support for dam performance monitoring.



Assignment/Description:

Conduct assignments related to the Los

Vaqueros Energy Recovery Project: Provide assistance with design services during construction and submittal review for the construction of a 1 Mega-Watt hydroelectric generation project, which takes advantage of excess hydraulic head in one of the District's critical water supply pipelines.

Provide design support on the Bollman Water Treatment Plant Seismic

Improvements Project: Provide assistance with development of design drawings and specifications for the construction of seismic improvements to critical process facilities, including the Sedimentation Basins and 10-million gallon filtered water reservoir (Clearwell) at the Bollman Water Treatment Plant. Tasks also include assistance during bid period services, including response to contractor questions, site visits, and clarification of contract documents, and assistance with design support during construction.

Investigate and design safety-related improvements at District facilities: Provide assistance with identifying, prioritizing, and design of safety improvements at various District facilities, including water treatment plants, pump stations, storage reservoirs, and administrative facilities.

Perform hydraulic modeling assignments: Review the hydraulic model of one of the District's critical water supply pipelines, assess the historic performance compared to expected performance and identify potential causes and remedies for deficiencies. Using H2ONet, run hydraulic models to confirm fire flows and sufficient service pressures for new and existing customers. Completion of coursework in hydraulics and proficiency in using spreadsheets programs is required.

Project Management – Review Budget and Schedule Milestones: Provide project management assistance by tracking project budgets and progress for in-house projects and consultant efforts. Develop projections to determine whether projects are tracking on schedule and on budget.

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Assist with monitoring dam performance: Assist with the assessment of dam performance based on field measurements and electronic tracking of foundation pressures and other dam instrumentation readings. Draft summary dam performance reports.

Investigate and develop recommendations in response to Engineering Support Requests from other departments: Assist with Engineering Support Requests received from the District's Operations and Maintenance Department for facility-specific and task-related field support and design modifications. Requires coordination with other departments to understand the problem, develop an approach, brainstorm ideas, and provide recommendations.

Assist with design of the Los Vaqueros Reservoir Expansion: Provide assistance with development of design drawings and specifications for the construction of the expansion of Los Vaqueros Reservoir, which includes raising the existing earthen dam, and modifications to pumping and conveyance facilities.

Assist with designs for the 2010 Treated Water Reservoir Rehabilitation Program: Provide assistance with planning and preliminary design of improvements to the District's treated water reservoirs to replace coatings, repair structural defects, improve mixing, and water quality monitoring.

Assist with design of Treated Water Pipeline Replacements: Provide assistance with development of design drawings and specifications for the construction of new pipelines to replace older pipelines with a history of leaks. Work also includes field investigations, coordination with other agencies, and planning for utility shutdowns.



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CCWD Planning Department:

The Planning Department conducts Master Plans to identify future capital projects, Preliminary Engineering Studies to address immediate system improvements and Special Studies to develop and implement new projects such as alternative energy facilities and regional water treatment projects. Typical Department responsibilities include performing hydraulic modeling analyses and completing environmental documentation reviews.

Assignment/Description:

Assist in preparing Master Plan documents including the Urban Water Management Plan and the Water Treatment Plant Master Plan: Perform conservation, demand, and population data analyses. Integrate and summarize information from a variety of sources to develop Master Plan documents.

Perform Hydraulic Modeling Assignments: Utilize the District's hydraulic model to analyze the distribution system. Assist in developing documentation, templates and protocols for system impacts analyses. Coursework in computer modeling software or programming is desirable.

Assist with Pipeline Renewal and Replacement Prioritization: Analyze database of pipeline leaks and breaks to produce a priority list of pipelines to be replaced. Develop improved record-keeping and database management systems.

Assist with permitting of Capital Projects: Work with in-house staff and regulatory agencies to secure necessary permits for Capital Projects.

Perform Greenhouse Gas Inventory: Perform update of the greenhouse gas emissions audit. Tasks include surveying emissions resulting from electricity, natural gas usage, and other sources, performing calculations, and presenting the results to District staff.

Develop Energy Management Projects:

Assist in the analysis and implementation of energy generation or use projects. Examples include hydropower, pump motor replacements, and software projects.



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CCWD Water Treatment/Water Quality:

The Water Treatment and Water Quality Divisions control the water treatment operations at three treatment plants, as well as monitoring and reporting the water quality of (1) untreated water, which consists of several water sources, (2) water as it is treated through the treatment plants, and (3) treated water in the distribution system including reservoirs, pump stations and pipelines.

Assignment/Description:

Conduct daily water treatment operations tasks: Perform tasks including bench scale performance testing, process data organization and review. Knowledge of water treatment processes is desirable.

Conduct daily water quality tasks: Perform field sampling and laboratory tasks including sampling trips to CCWD key locations. General laboratory experience is desirable.

Assist with water loss audit for water treatment plants: Review and organize data obtained during evaluations of measurable water losses at the water treatment plants. Proficiency in spreadsheet programs and data compilation is required.

Assist with updating Invasive Mussel Species Program and Biological

Management Plan: Continue to update the Invasive Mussel Species Program document and the Biological Management Plan by maintaining accurate reference information. Proficiency in word processing is required.

Assist in preparing summary confirming compliances with 2008 Waterworks Standards: Review and evaluate 2008 Waterworks Standards and confirm that requirements of the Standards are being met. Proficiency in word processing is required.

Assist with continued bromate formation study: Organize and evaluate data obtained during a bromate formation study at one of the District's treatment facilities. Proficiency in spreadsheet programs and experience in data compilation and statistical analysis is required.

Assist with flushing program evaluation: Assist in the evaluation of hydraulic modeling data to provide improvements for unidirectional and dead-end flushing. Proficiency in spreadsheet programs is required.



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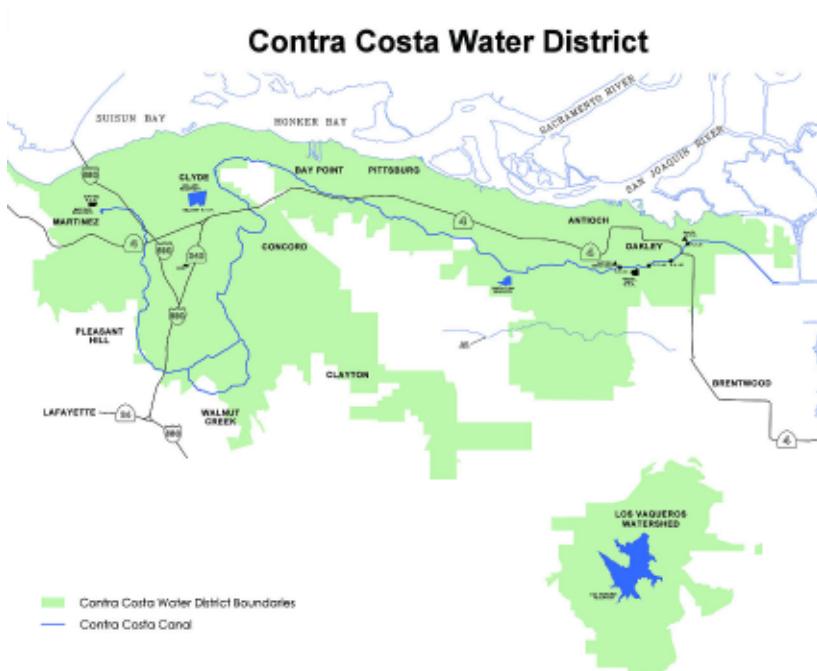
The Water Resources Department supports the District's operations by performing real-time and future forecasting analysis of California hydrologic conditions and resulting effects on water resources, with a focus on the Sacramento-San Joaquin Delta, which is the District's source of water supply. Additionally, this Department supports planning studies for future District projects, involving development and analysis of numerical modeling studies of California water operations and Delta hydrodynamics, and analysis of water supply, water quality, and fishery issues.

Assignment/Description:

Conduct or assist with data analysis: Conduct independent analysis or support ongoing analysis of data related to Delta water resources, including water quality, hydrodynamic, or fishery data.

Develop improvements to operations and water quality modeling tools: Tasks may include running comparative model studies, evaluating results, testing and improving model calibration.

Assist in the preparation of technical documents or publications: Perform research and analysis to support document preparation. Documents may include Environmental Impact Reports, Feasibility Studies, or technical publications.



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