



Marina Coast Water District

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WATER RESOURCES TECHNICIAN I WATER RESOURCES TECHNICIAN II

DEFINITION

Under general direction, performs professional level duties in support of the District's groundwater monitoring; performs and coordinates field data collection, water quality sampling, and monitoring well infrastructure projects; supports the preparation of Resource plans and reports, annual reports, and periodic evaluations; coordinates with consultants, contractors, laboratories, and partner agencies on multi-agency water resources projects; analyzes hydrologic and water quality data and prepares technical reports; assists with procurement and project management for water resources programs; and performs related work as required.

SUPERVISION RECEIVED AND EXERCISED

Direct supervision is provided by the Water Resources Manager or his/her designee. No direct supervision of staff is exercised.

CLASS CHARACTERISTICS

Water Resources Technician I is the entry-level classification in the Water Resources Technician class series. Initially, under close supervision, incumbents learn and perform routine duties related to groundwater monitoring, field data collection, and water resources program support. As experience is gained, assignments become more varied, complex, and difficult; close supervision and frequent review of work lessen as an incumbent demonstrates the skill to perform the work independently. Positions at this level may perform some of the duties required of the Water Resources Technician II position but are not expected to function at the same skill level and exercise less independent discretion and judgment in matters related to work procedures and methods. Work is usually supervised while in progress and fits an established structure or pattern. Exceptions or changes in procedures are explained in detail as they arise.

Water Resources Technician II is the fully qualified journey-level classification in the Water Resources Technician class series, capable of performing a wide variety of independent work. Positions at this level are distinguished from the Water Resources Technician I level by the performance of the full range of duties as assigned, working independently, and exercising judgment and initiative. Positions at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit.

EXAMPLES OF DUTIES (Illustrative Only)

- Conducts groundwater level and water quality monitoring at wells throughout the subbasin, including manual measurements and datalogger-based data collection.
- Collects groundwater and water quality samples using low-flow and other approved protocols, including for constituents of concern such as PFAS, nitrate, and volatile organic compounds; coordinates delivery to certified laboratories and reviews analytical results.
- Monitors seawater intrusion conditions and maintains associated chloride and water quality monitoring records.
- Coordinates monitoring well infrastructure projects, including well installation, rehabilitation, video logging, datalogger procurement, and pump replacement; prepares requests for quotes and supports competitive bid and sole-source procurement processes.
- Performs field inspections, making field measurements, calculations, and sketches, and inspects wells, weather stations, and other water resources infrastructure.
- Gathers and analyzes data and prepares written technical reports for managers and others, outlining recommendations for monitoring, data collection, and management improvements.
- Assists with the preparation and submission of Groundwater Sustainability Plans (GSPs), SGMA annual reports, periodic evaluations, and other mandated county, state, and regional water resource-related reports.
- Compiles and analyzes hydrologic, climatic, and water quality data from sources such as PRISM, CIMIS, and datalogger networks in support of water year and water budget calculations.
- Coordinates with consultants, contractors, laboratories, and partner agencies on multi-agency groundwater and water resources projects.
- Maintains accurate records of work performed.
- Supports the development and maintenance of water resources databases, geographic information system (GIS) data, and public data portals.
- Assists with project management, scheduling, and status reporting across multiple concurrent water resources projects.

QUALIFICATIONS

Knowledge of:

- Principles and methods of groundwater hydrology, water resources management, water supply, and recycled water and managed aquifer recharge programs.
- The Sustainable Groundwater Management Act (SGMA) and related state groundwater regulations, reporting requirements, and sustainability planning.
- Groundwater and water quality sampling methods, field measurement techniques, and monitoring well operation and maintenance.

- Appropriate data and record-keeping methods and principles.
- Basic safety practices related to field work, including work at well sites and around equipment.
- Applicable laws, codes, and regulations.
- Standard and specialized computer applications related to the work, including data management and geographic information systems (GIS).
- Methods for compiling, managing, and analyzing hydrologic, climatic, and water quality data.
- Seawater intrusion processes and monitoring within coastal groundwater basins.

Skill in:

- Analyzing problems, examining alternatives, and recommending solutions.
- Collecting groundwater and water quality field data and samples using established protocols and instrumentation.
- Providing technical support in the implementation of groundwater monitoring and SGMA compliance programs.
- Interpreting, applying, and explaining laws, regulations, policies, and procedures.
- Compiling, analyzing, and interpreting hydrologic and water quality data and presenting results in technical reports.
- Making accurate mathematical calculations.
- Prioritizing own work and using independent judgment within procedural guidelines.
- Maintaining accurate records of work performed.
- Establishing and maintaining effective working relationships with those contacted in the course of the work.
- Coordinating projects, contractors, and consultants, and supporting procurement and reporting processes.

Education/Experience:

Water Resources Technician I: Equivalent to two years of college-level coursework which included the fundamentals of engineering, hydrology, groundwater, and water resources management, and two years of increasing responsible experience performing related field work, groundwater monitoring, sample collection, and data analysis.

Water Resources Technician II:

In addition to the above, two years of experience performing duties at a level equivalent to the District's classification of Water Resources Technician II.

A bachelor's degree in hydrology, engineering, environmental science, or a related field from an accredited college may be substituted for up to two (2) years of the required experience.

Licenses and Certifications:

Water Resources Technician I/II: Must possess and maintain a valid California class C driver's license and have a satisfactory driving record. Additional training may be required based on actual field assignments.

Water Resources Technician II: In addition to the above, specialized training or certification in hydrogeology, groundwater science, or geographic information systems (GIS) is desirable.

Physical Demands:

Must possess mobility to work in a standard office setting and use standard office equipment, including a computer; mobility to inspect various well sites, monitoring locations, and water resources infrastructure; physical stamina to perform system and site inspections; traverse uneven terrain and lift and carry materials weighing up to 50 pounds; vision to read printed materials and a computer screen; and hearing and speech to communicate in person, over the telephone and a two-way radio. Employees may interact with members of the public under stressful conditions while interpreting and enforcing District policies and procedures.

Other Requirements:

The work requires outside exposure to all weather conditions with dust, noise, traffic, some potentially hazardous materials and electrical or heavy equipment.

FLSA Status: Non-exempt eligible for overtime

Bargaining Unit: MCWD Employees Association