



Water Quality Technician II

DEFINITION

Under general supervision, performs a variety of tasks in connection with maintaining water quality including performing water quality sampling and monitoring of the District's source and distribution water system, implementing the District's Cross-Connection Control Program, and monitoring and coordination of the Recycled Water Program and other duties as assigned.

Distinguishing Characteristics

This is a journey level class responsible for performing the duties associated with the District's Water Quality Program. In addition to tasks described in the Water Quality Technician I role, the Water Quality Technician II is assigned more complex tasks including a variety of tasks related to water quality, recycled water monitoring and cross connection control. Duties performed may include extensive public contact requiring tact, initiative, and discretion. Incumbents in this class work independently in the field and in the office handling consumer issues, conducting field investigations and surveys, performing inspections and related testing, and monitoring and repairing District-owned backflow prevention assemblies.

EXAMPLES OF DUTIES

Typical duties may include but are not limited to the following:

- Collects water samples from lakes, tanks, and the distribution system for various laboratory testing;
- Performs water quality field work at reservoirs including temperature and oxygen profiles, plankton sampling, secchi disc readings and visuals; applies chemical treatment to reservoirs as directed;
- Performs water quality sampling of the potable and recycled water distribution system, maintains chain of custody records for samples and accurately enters data.
- Performs sanitary tank surveys involving visual inspection, water quality sampling, and disinfection;
- Provides technical advice and support on backflow and recycled water issues to other District employees and the public;
- Performs regular inspection, testing and repair of District owned backflow prevention assemblies and recycled water facilities and minor maintenance and repair;
- Monitors and inspects recycled water sites for compliance with District policies and state regulations
- Evaluates, develops, and promotes new recycled water sites and uses
- Conducts annual inspections and tests of recycled water use facilities
- Generates notices to consumers for regulatory compliance with annual testing/maintenance and installation of backflow prevention assemblies and fireline check valves;
- Coordinates with customer and contractor to facilitate retrofits of private fireline check valves
- Performs cross connection surveys to identify plumbing deficiencies related to cross-connection hazards and educates consumers on methods of abatement and performs follow-up inspections for compliance;
- Under supervision assists in laboratory when needed, and may perform routine laboratory tests such as alkalinity, hardness, color, conductivity, pH, turbidity, and other tests as necessary
- Performs customer complaint water quality investigations
- Prepares for and conducts meetings and presentations with consumers, contractors, and developers' officials such as pre-construction meetings, initial and final inspections.

- Prepares for and conducts various backflow prevention and recycled water training seminars;
- Operates and maintains a computerized database and develops and maintains associated spreadsheets and reports;
- Maintains and tracks a variety of reference lists including private contractors and approved assembly lists for consumers;
- Researches and maintains records and files, prepares detailed correspondence, reports and records;
- May train and direct the work of others in daily operations or on a project basis.
- Performs a variety of tasks in connection with maintaining safe water quality such as flushing of water mains and a variety of water testing and sampling from distribution pipes,
- May schedule and oversee the work of others on an occasional basis

QUALIFICATIONS FOR EMPLOYMENT

Knowledge of:

- Principles, practices, and methodologies of Cross-Connection Control and Recycled Water programs; landscaping and irrigation systems and their operation; modern plumbing and water distribution and use and the related equipment including hydraulics, backflow prevention assemblies, and cross-connection control;
- State and local codes, rules, and regulations associated with Public Health Codes related to drinking water quality, Cross-Connection Control and Recycled Water, Uniform Plumbing Code (UPC), California Plumbing Code (CPC) and other related codes;
- Principles and techniques for gathering information to maintain and update a variety of water supply and water distribution systems databases, records, charts and maps; Microsoft Excel, Word, PowerPoint;
- Records management practices and procedures, organizing and maintaining accurate files and records, including computer data storage and retrieval, and personal computer operation;
- Proper spelling, grammar, punctuation and writing practices including report writing and correspondence;
- Database maintenance and development techniques which include working with word processing and spreadsheet computer files in a Windows network environment;
- Occupational hazards and standard safety practices;
- Familiarity with basic water quality sampling and field testing, and safe handling of water quality treatment chemicals such as sodium hypochlorite;
- Chemicals used in the treatment of water;
- Standard field tests for determining water quality;
- District operations and facility locations;
- Procedures for sampling water and testing for water quality parameters;

Ability to:

- Work with the public in situations requiring diplomacy and tact; communicate technical information effectively both orally and in writing;
- Establish and maintain effective working relationships with those contacted in the course of work;

- Understand, interpret and enforce regulations and District policies/ordinances and guidelines; apply and explain policies, procedures and regulations;
- Read and interpret a variety of building and plumbing plans and specifications accurately;
- Read and understand record drawings, parcel and subdivision maps.
- Learn and perform field measurements and calculations and develop field sketches;
- Read, interpret, and record data accurately; organize, prioritize, and follow-up on work assignments; work independently and as part of a team;
- Plan site visits efficiently to minimize driving time and organize time effectively for a variety of daily tasks;
- Prepare for and conduct meetings, presentations with contractors, developers and regulatory officials such as pre-construction meetings, initial and final inspections;
- Learn and utilize backflow prevention software programs for example, Tokay SQL version.
- Analyze problems, identify alternatives and recommend solutions; make sound decisions within established guidelines;
- Perform intermediate level tasks using Excel, Word, and PowerPoint;
- Generate correspondence and reports utilizing associated computer software and hardware;
- Follow written and oral directions; observe safety principles and work in a safe manner following applicable safety rules and regulations;
- Travel to alternative work locations and offsite meetings;
- Safely drive a District pickup truck, sometimes in 4x4 conditions;
- Launch, recover and operate a power boat on District reservoirs;
- Safely drive a District pickup truck while towing a trailer
- Use and navigate the district's GIS software

EXPERIENCE AND TRAINING: Any combination of experience and training that would likely provide the required knowledge and abilities would be:

- Graduation from an accredited college or university with a bachelor's degree in Engineering, physical science, or closely related field and *one year's experience* performing water quality sampling or cross connection control activities;
or
- Graduation from an accredited college with an associate degree in engineering, physical science, or closely related field and *two years of experience* performing water quality sampling or cross connection control activities;
or
- Completion of twelfth grade or its equivalent; and four years of experience performing water quality sampling or cross connection control activities.
- Specialized training related to water distribution system technologies, cross-connection control and/or installation of backflow prevention assemblies is desirable.

Licenses and/or Certifications

- Possession of California driver's license issued by the State Department of Motor Vehicles and a satisfactory driving record;
- Possession of an ABPA or AWWA CA/NV Section "Backflow Prevention Assembly General Tester Certification";
- Possession of and maintain current ABPA and/or AWWA CA/NV Section "Cross-Connection Control Specialist certification;
- Possession of current D-2, Distribution Operator's Certificate issued by the State Water Resources Control Board (SWRCB).

Other Requirements

- Per California Government Code, Title 1, Division 4, Chapter 8, Section 3100 “all public employees are hereby declared to be disaster service workers subject to such disaster services activities as may be assigned to them by their superiors or by laws.” (Ref: California Government Code, Title 1, Division 4, Chapter 8, Sections 3100 – 3109)
- Must be willing to work overtime as needed.

Physical Demands and Working Conditions

While performing the duties of this job the employee is frequently required to stand for extended periods of time, reach, twist, turn, kneel, bend, squat, and stoop in the performance of daily activities both in the office and in the field. The position requires grasping, repetitive hand movement and fine coordination to handle tools and using a computer. The employee operates a personal computer and a variety of computer software, office equipment and tools and requires near vision in reading plans, correspondence, reports and/or statistical data. Acute hearing is required when providing phone and personal service. The employee is required to work outside in inclement weather as needed. The employee must occasionally lift and/or move up to 50 pounds and be able to work in the field in various types of terrain such as construction sites, hills, and uneven terrain. Work is performed in the field, at various businesses, residential buildings, active construction sites, and correctional facilities and in a normal office setting with moderate noise levels. Employees are required to operate a motor vehicle and work overtime as necessary. To be successful in this job, an individual must be able to satisfactorily perform each of the listed duties. These duties are representative of the knowledge, skill and/or ability required for the position. Reasonable accommodations may be made to enable individuals with disabilities to perform the duties and functions of the position. Requests for reasonable accommodation should be directed to the Human Resources Manager.

Established: February 2025

Revised:

Approved by: Human Resources Manager