

WATER QUALITY TECHNICIAN

DEFINITION

Under supervision, assists and participates in the testing and sampling of the City's water systems and water quality.

SUPERVISION RECEIVED/EXERCISED

Receives supervision from manager or designee. Exercises no supervision.

DISTINGUISHING CHARACTERISTICS

Water Quality Technician is the entry level class in the Water Quality series. Incumbents perform semiskilled and skilled duties in the testing, sampling, cleaning, maintenance, inspection, repair, installation replacement, surface and groundwater treatment, distribution, construction and operation of City's water system infrastructures for the delivery of potable water. This class is distinguished from Water Quality Specialist in that incumbents of the latter may provide lead instruction. Incumbents may be required to work evenings, weekends, and holidays.

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES

May include, but are not limited to, the following:

Assists with the installation, maintenance, and repairs of water lines, valves, meters, pressure regulators, pumps and tanks, surface and groundwater treatment equipment, production equipment, and other water system infrastructures.

Operates and services equipment used in the repair, installation and maintenance of water system infrastructures including, but not limited to, compressors, jack hammers, tractors, trucks, and any other assigned light and heavy equipment.

Makes minor adjustments on service equipment; maintain tools and equipment in working order.

Operates and maintains wells, reservoirs, and treatment facilities; inspects residential and commercial service issues.

Monitors and adjusts water production and treatment equipment.

Makes water line taps; install water services, valves, and other water devices.

Performs field duties related to the water system; takes water samples and inspects new construction.

Water Quality Technician
Page 2

Excavates trenches and install shoring as required by Cal OSHA rules and regulations.

Identifies service and main leaks; operates pipe locators; installs and inspects backflow devices.

Cleans and monitors pump stations and related equipment.

Performs emergency repairs to water lines as necessary; establishes proper traffic control devices.

Maintains logs of daily activities. Keeps accurate records.

Handles complaints and answers questions from the public.

Performs minor concrete work.

Notifies underground service alert of requirement for locating, marking, notification and pavement markings for excavation.

Performs surface water, groundwater and distribution system sampling.

Wears and uses applicable PPE consistent with state mandates, as required.

Performs other related duties as assigned.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

Materials, methods, practices, equipment and tools used in the installation and maintenance of valves, water lines, meters, regulators, pumps, surface water and groundwater treatment equipment, distribution and water services.

Occupational hazards and safety precautions of the industry; some knowledge of local, state and federal statutes, codes, rules and regulations governing water systems, surface and groundwater treatment and quality (e.g., Safe Drinking Water Act).

Basic principles and practices of water quality maintenance and repair.

Common tools, materials, and motorized vehicles and equipment used in the maintenance and repair of a water quality system.

Pumps, valves and backflow devices.

Basic mathematical principles.

Safe work practices and policies.

Skill/Ability to:

Locate mains, pipes, hydrants, and meters.

Keep simple, accurate records.

Follow and prepare oral and written instructions.

Safely operate assigned vehicles, tools and equipment in the installation and maintenance of the water system.

Plan and order materials necessary to accomplish assigned tasks.

Read water quality maps and as-built plans and blueprints.

Perform simple arithmetic and mathematical computations.

Perform heavy manual labor. Physical strength and agility to work outdoors under arduous conditions.

Work with the variety of tools related to water system maintenance.

Perform routine groundwater treatment procedures.

Perform confined space entry.

Read and understand schematic diagrams.

Communicate clearly and concisely, both orally and in writing.

Establish and maintain effective working relationships at all organizational levels, including the public.

MINIMUM QUALIFICATIONS

Education:

Possession of a High School Diploma or equivalent GED completion.

Experience:

Water Quality Technician
Page 4

One (1) year of full-time work experience in the testing, sampling, cleaning, maintenance, inspection, repair, installation, replacement, construction, distribution and operation of water systems.

SPECIAL REQUIREMENTS

Possession of a valid Class C California Driver's License is required at the time of application and continued maintenance throughout the entire term of employment in this classification.

Possession of a valid Water Treatment Operator Certificate, Grade T1, issued by the California State Water Resources Control Board is required at time of application and continued maintenance throughout the entire term of employment in this classification.

Depending on assignment area may be required to obtain a valid Commercial Class A or B California Driver's License with appropriate endorsements and continued maintenance for entire term of employment in this classification.

Depending on assignment area may be required to obtain a valid Backflow Certification issued by the California State Water Resources Control Board and continued maintenance throughout the entire term of employment in this classification.

PHYSICAL DEMANDS

The physical demands described here are representative of those that are necessary to safely, effectively, and efficiently perform the essential functions of this job with or without reasonable accommodation.

This classification's physical demands involve heavy work exerting up to 100 pounds of force occasionally with assistance, and/or up to 50 pounds of force frequently, and/or up to 20 pounds of force constantly to move objects. Additionally, the following physical demands may be required: balancing, climbing, crawling, crouching, feeling, manual dexterity, grasping, handling, hearing, kneeling, lifting, mental acuity, pulling, pushing, reaching, repetitive motion, speaking, standing, stooping, talking, visual acuity, walking.

APPROVED: _____ Signature on File _____ DATE: 10/20/2025
Director of Personnel Services

NEW: 8/14/17
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Revised: EVG/C&C: 10/20/2025