

City of Fresno

610031

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. It is distinguished from Laborer, in that it requires skills, knowledge and experience in water system repair, testing, maintenance and installation. 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; inspect residential and commercial service issues.

Monitors and adjusts water production and treatment equipment.

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

Perform field duties related to the water system; take water samples and inspect new construction.

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

Identify service and main leaks; operate pipe locators; install and inspect backflow devices.

Clean and monitor pump stations and related equipment.

Perform emergency repairs to water lines as necessary; establish proper traffic control devices.

Maintains logs of daily activities. Keeps accurate records.

Handle complaints and answer 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.

May be required to wear and use applicable PPE consistent with state mandates.

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.

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

HS Diploma or GED completion;

AND

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

Possession and continued maintenance of a valid Class "C" California Driver's License.

NECESSARY SPECIAL REQUIREMENTS

Within 12 months of appointment, possession and continued maintenance throughout entire term in this class, a valid Water Treatment Operator Certificate, Grade T1, issued by the State of California, State Water Resources Control Board. Failure to obtain and continue to maintain the valid certification within the specified time period above shall be cause for termination from this class.

Depending on assignment area: 1) may be required to obtain and maintain a valid Commercial Class "A" or "B" California Driver's License with appropriate endorsements for entire term of employment, 2) may be required to obtain and maintain a valid Backflow Certification issued by the California State Water Resources Control Board.

APPROVED: (Signature on File)
Director of Personnel Services

DATE: 8/15/2017

NEW: 8/14/17