

CENTRAL UTAH WATER CONSERVANCY DISTRICT

Job Description

Revised: December 2025

JOB TITLE: Water Systems Technician
REPORTS TO: CWP Water System Manager
DEPARTMENT: Finished Water Operations
LOCATION: Vineyard, UT (CWP)
STATUS: Non-Exempt
SALARY GRADE: 9

JOB SUMMARY

This position is responsible for the operations and maintenance of public drinking water distribution system which includes pipelines, wells, storage, pump station, chlorine feed system, and computerized control system, which requires safeguarding public health and providing high-quality drinking water in a cost-effective and efficient manner.

ESSENTIAL FUNCTIONS

Essential & other important responsibilities & duties may include, but are not limited to, the following:

1. Operates and maintains a public drinking water system which requires the knowledge, skill, and ability to utilize, troubleshoot, and calibrate various electrical equipment - including chlorine feed systems, computers, PLCs, I/O cards, turbine pumps, motors (AC & DC), valves, and analytical devices (turbidimeters, flow meters, pH meters, etc.)
2. Monitors CWP SCADA system and makes necessary real-time operational changes with respect to chlorine feed rates and dosages, well pumping rates, treated water reservoir levels, proper valve adjustments, and appropriate unit process placement per a given flow rate.

3. Evaluate ground water finished water quality and preserve the finished water quality by making independent decisions and timely adjustments to chlorine dosages and system operational processes.
4. Evaluate finished water quality and make necessary operational changes to ensure water in the distribution system meets all District, State, and Federal guidelines.
5. Operates and maintains the CWP wells pumping equipment, storage tanks, control valves, and metering to deliver high-quality finished water to CWP customers and coordinates flows and pressures with District staff and CWP customers.
6. Monitors CWP security systems and District remote site facilities including wells, storage tanks, and flow turnouts, and responds appropriately.
7. Feeds, monitors, maintains, detects, and controls the chlorine feed system and responds to any chlorine leak in a safe, responsible manner.
8. As a trained and certified lab technician, performs laboratory tests and analyses such as Ph, alkalinity, hardness, total dissolved solids, conductivity, color, turbidity, chlorine residuals, and bacteriological analysis.
9. Regularly works on-call with the knowledge and ability to respond as needed. Ability to work rotating shifts, weekends, and holidays as scheduled, and provides Blue Staking of facilities as needed.
10. Records and organizes water quality data using computer word processing and spreadsheet software for regulatory compliance information and communication.

MARGINAL FUNCTIONS

1. Performs various janitorial, painting, and grounds maintenance duties.
2. Performs other related duties as assigned.

SUPERVISION EXERCISED

No supervisory duties are required.

KNOWLEDGE, SKILLS, AND ABILITIES (KSAs)

Ability to operate a SCADA system which involves monitoring computer equipment, and/or

reading flow charts and making the necessary flow changes by turning and/or pressing buttons, switches, etc.

Ability to operate various equipment, i.e., hoist, crane, respirator, hoses, and plant instrumentation which involves pushing, pressing, pulling, grasping buttons, levers, switches, etc.

Ability to pull water samples and check turbidity levels; ability to smell for odors when conducting odor tests.

Ability to troubleshoot various facility operational problems that may arise during daily operations; to move about to inspect facilities; and to move quickly to respond to an emergency.

Ability to use a passive vocabulary of 5,000-6,000 words; to read at a slow rate; to read instructions, logs, safety rules, material safety data sheets, etc.

Ability to write or type (inscribe by whatever means) data into a manual or on a computer spreadsheet.

Ability to perform repetitive work; to continuously perform the same work according to set procedures.

Ability to follow instructions; receive guidance and supervision; follow work rules, safety practices, and work procedures; punctuality and attendance standards.

Ability to work rotating shifts and weekend work and/or ability to work on-call and respond to call-backs and arrive in a physical and mental condition to evaluate, repair, and troubleshoot problems; to work overtime as required.

Ability to be subject to hazards: This includes a variety of physical conditions, such as proximity to mechanical equipment, exposure to heat and cold, or exposure to chemicals (airborne and/or skin exposure) including chlorine.

PHYSICAL DEMANDS & WORKING ENVIRONMENTS

The physical demands and working environment demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform essential job functions.

Environment:

Works indoors and outdoors; often work is in conditions of extreme cold (below 32 degrees)

and in conditions of extreme heat (above 95 degrees) for up to 3-4 hours or more.

Work requires responding to callouts during evening hours, early mornings, weekends, and/or holidays for emergency situations or flow changes; and to work 40 or more hours during the work week as needed to complete tasks in a timely manner.

Physical:

Requires sufficient mobility to walk, stand, and sit for prolonged periods of time, to climb stoop, bend, kneel, crouch, crawl, reach, and twist; push, pull, lift, exert up to 100 lbs. of force/weight occasionally, and/or more than 50 lbs. of force frequently to move and/or carry objects when working in vaults, pipelines, canals, mountainous and/or uneven surfaces or terrain.

Work tasks may be performed in confined spaces including pipes, tunnels, hatches, vaults, etc.

Demonstrates adequate hearing and speech to converse in person and by phone; to hear alarms, safety instructions, etc.

Exercises close vision to read printed materials, see a computer screen, read instrumentation, and record data; depth perception and peripheral vision required to operate various equipment, use various tools, drive vehicles; discern colors in the operation of equipment, SCADA, alarms, etc.

Work tasks are subject to noise in various operations of equipment such as generators, welders, grinders, drills, band saws, cutting torches, power plants, etc.

Work tasks may be performed in high places (vaults, ladders, etc.) or on or near bodies of water (rivers, canals, reservoirs, etc.)

Drives to various meetings, appointments, site visits, tours, etc.

Work tasks may include wearing a respirator and other safety equipment when air conditions may affect the respiratory system; the ability to smell odors, fumes, etc.

QUALIFICATIONS

Required to meet a combination of Experience/Education/Certification/License/Training in the following.

1. High school diploma or equivalent.
2. 2 year's experience related to job tasks.
3. Must obtain state of Utah Grade IV Treatment & Distribution Certification within 1 year of hire date.
4. Valid Utah Driver's license with satisfactory driving record (MVR).