

Water System Operator 3

DEPT: Water Systems
DIV:
DATE: July 2016

FLSA: Non-Exempt
EEOC: Skilled Craft



POSITION SUMMARY

Performs a variety of **"restricted" journey level skilled duties on an assigned field crew** related to the construction, installation, maintenance and repair of city water, irrigation, storm drain or wastewater systems.

SUPERVISION RECEIVED

Works under the general supervision of an assigned Water Systems Supervisor or Water Systems Operator IV.

SUPERVISION EXERCISED

None.

ESSENTIAL FUNCTIONS

Culinary Water: Acts as lead and participates in the work of a maintenance and repair crew engaged in installation, maintenance and repairs of water mains; service line; fire hydrants; valves and related structure.

Operates various types of heavy equipment such as operates six or ten wheel transport trucks, patrol, backhoe, rollers and trenching equipment; performs installation or repair of water service connections, water lines and meters, repairs or replaces fire hydrants and plugged water meters; repairs water mains; thaws frozen lines; cleans and maintains storage tanks; connects and disconnects service; searches out shut off valves; water line leaks; assists in placement of pipe and water regulators; removes, disassembles, cleans or replaces defective parts of regulators, adjusts pilot valves as needed to assure efficient water line service.

Installs new water lines using forklift, pipe threader, tapping machine, welder, pipe cutting saw, pipe and cable locator old water lines; tears out and repairs curb, gutter and street in locating and uncovering broken lines; builds meter boxes; builds extensions to raise or lower existing boxes as needed; operates a variety of hand tools and small power equipment such as jack hammers, roller, compressors, packing machine, gopher, tamper, tapping machine; cleans tools and equipment to assure proper working order.

Maintains pump house; repairs water/booster pumps; removes and disassembles pumps; cleans and replaces defective parts, grease bearing, adjusts packing and reinstalls in pump housing; monitors city water well storage levels; assures proper operation of telemetering equipment; tests fuses and resistors using OHM meter; replaces fuses and resistors as needed.

Participates in work zone safety procedures; flags on coming vehicles to protect the public and workers; sets up warning signs and signalization equipment; prepares irrigation ditches; lays pipe; builds head gates; prepares and maintains water flow schedules; confers with other water agencies; assists in construction and repair of head gate and diversion structures to control irrigation system water flow.

Operates valves to maintain balance in the pressurized irrigation distribution system; cleans reservoirs; paints valves; leads in maintenance and troubleshooting of PRV valves and related projects.

Water Sampling: Conducts water sampling and delivers to county health for analysis; monitors chlorine levels; tests water using DPD tester to assure proper chlorine residual levels; reads water flow meter, chlorine pound per day gauge; calculates chlorine dosage and makes proper adjustments.

Storm Drain System: Maintains and cleans city storm drain collection system main lines; inspects manholes and storm drain lines to detect leaks or malfunctions; bolts leak proof collars to mains to stop leaks; seals joints with cementing compound; opens clogged storm drain lines using various pipe cleaning equipment.

Correct structural deficiencies, eliminating infiltration and stoppages of drainage mains. Performs daily maintenance and repair of equipment used; operates and supervises operation of jet truck, power rodder, root cutter and other equipment; operates jackhammer; repairs and rebuilding of manholes, and the repair storm drain mains or replacement of covers; operate metal detector to locate concealed manholes and raised to grade for street overlays.

Operates a high velocity jet truck; cleans and maintains existing storm drain lines. Also provides vac truck operation to resolve water leaks in the system; operates television inspection truck used to inspect main sewer lines and storm drain system.

Performs minor storm drain collection system installation, maintenance, and repairs; operates a variety of hand or power equipment, including tapping machine, jack hammer, compactor, rodding machine, etc.; installs new storm drains mains; taps

mains to make service connections.

Pressurized Irrigation: Operates backhoe and front end loader in digging and filling trenches for laying and repair of irrigation lines; assists in operating road cutting machine and operating jack hammer to break up pavement; prepares irrigation ditches; lays pipe; builds head gates; prepares and maintains water flow schedules; confers with other water agencies.

Locates and marks and properly identifies underground irrigation lines on request of contractors and utility owners. Takes field measurements on irrigation valves; fire hydrants; and mainlines. Locates and brings irrigation valves to grade.

Maintains and makes minor repairs on equipment; assists in thawing frozen pipes; assists in meter reading and coordinates with other departments as work load dictates; assists in providing for the maintenance, installation and repair of program facilities; monitors water flows; manages operation of pump stations; assists in construction and repair of head gate and diversion structures to control irrigation systems water flow.

Operates valves to maintain balance in the Pressurized Irrigation Distribution System; clean reservoirs; paint valves, assist in maintenance of PRV valves ; process daily referrals from the main office by doing on site trouble shoot inspections.

Performs field duties in building of irrigation ditches; laying pipe; building head gates; preparing and maintaining water flow schedules; confers with other water agencies; assists in construction and repair of head gate and diversion structures to control irrigation system water flow.

Wastewater: Maintains and cleans city wastewater collection system main lines; inspects manholes and wastewater lines to detect leaks or malfunctions; bolts leak-proof collars to mains to stop leaks; seals joints with cementing compound; opens clogged wastewater lines using various pipe cleaning equipment.

Correct structural deficiencies, eliminating infiltration and stoppages of wastewater mains. Performs daily maintenance and repair of equipment used; operate jet truck, power rodder, root cutter and other equipment; operates jackhammer; repairs and rebuilds manholes, and the repair of wastewater mains or replacement of covers; operate metal detector to locate concealed manholes and raise to grade for street overlays.

Operates a high velocity jet truck; cleans and maintains existing wastewater lines. Also provides vac truck operation to resolve water leaks in the system operates television inspection truck used to inspect main sewer lines and storm drain system.

Installs new wastewater mains; taps mains to make service connections; performs wastewater collection system installation, maintenance, and repairs; operates a variety of hand or power equipment, including tapping machine, jack hammer, compactor, rodding machine, etc.

Maintains accurate record of work performed and equipment maintenance; advises the public and others of problems or work status on specific projects; makes recommendations as needed. Keeps maintenance and annual safety training records; deals with the public; mediates complaints and resolves operation problems with the assistance of the department supervisor.

Operates television viewing and inspection equipment to detect wastewater line leaks obstructions; sets up power equipment; performs maintenance and repairs of specialty equipment; operates jet cleaning unit to clean ditches and culverts; performs dye testing to deter origins of problems; performs maintenance and repairs of electrical parts on TV truck.

Performs related duties as required.

MINIMUM QUALIFICATIONS

1. Education and Experience:
 - A. Graduation from high school; plus level "III" Water Distribution Operator Certification; and level "III" Wastewater Collections certification;
 - AND
 - B. Four (4) years' experience in construction, maintenance or repair of various water systems;
 - OR
 - C. An equivalent combination of education and experience.

2. Knowledge, Skills, and Abilities:

Considerable knowledge of operating basic manual and power tools; the standard practices, methods, materials and tools necessary for pipe line construction and repair activities; pipe fitting procedures, pipe classifications and type; the occupational hazards and safety precautions of trench work construction and pipeline maintenance work; hazards common to heavy equipment operation; drain system construction methods etc.; water supply and distribution systems; construction requirements for water distribution and pumping systems; hazards associated with

I _____ have reviewed the above job description. Date: _____
(Employee)