

# WWTP Operator I

Dept/Div: Public Utilities/Wastewater Treatment

FLSA Status: Non-Exempt

## General Definition of Work

Performs technical work operating a wastewater treatment plant, taking samples, performing routine tests, ensuring proper plant operation, maintaining records and files, preparing reports, and related work as apparent or assigned. Work is performed under the moderate supervision of the WWTP Superintendent.

## Qualification Requirements

*To perform this job successfully, an individual must be able to perform each essential function satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable an individual with disabilities to perform the essential functions.*

## Essential Functions

Makes tours of plant and checks engines, generators, pumps, tanks, filters, valves, and other equipment for proper functioning; monitors gauges, meters and control panels.

Records readings from meters and instruments; maintains various records and logs on plant operations.

Regulates and adjusts motors, pumps, blowers, valves and other apparatus, plant machinery, and equipment to meet changing operating conditions.

Collects samples of raw sewage, primary treatment effluent, and grit for laboratory analysis; performs tests such as chlorine residuals, pH, etc.

Checks dissolved oxygen in basins; inspects blowers and grit classifier.

Operates solids handling equipment; runs the gravity belt thickener; adjusts flow, polymer, and belt speed settings; operates press system.

Skims grease from settling tanks; backwashes filters; cleans barscreens; checks chemical tanks and fills with required chemicals; checks sludge levels; operates pump truck in the transportation of raw waste.

Performs minor maintenance and lubrication on equipment; cleans and services pumps, motors, and other equipment.

Makes minor or emergency repairs; reports defects to proper personnel.

Performs minor preventive maintenance on plant equipment; assists with plant maintenance and repair.

Performs general custodial and grounds maintenance work.

May be required to work outside normal work hours in on-call and emergency situations.

## Knowledge, Skills and Abilities

Some knowledge of the operating characteristics and maintenance requirements of a wastewater treatment plant; some knowledge of hydraulic, chemical, and mechanical principles pertinent to wastewater treatment plant operations; some knowledge of the occupational hazards of the work and of the necessary safety precautions; skill in the use and care of hand tools; ability to detect flaws in the operation of mechanical equipment and to determine proper remedial measures; ability to understand and follow oral and written instructions; ability to read meters and charts accurately and to maintain records of shift operations; ability to establish and maintain effective working relationships with associates, vendors, businesses, and the general public.

## Education and Experience

High school diploma or GED and minimal experience in the operation of a wastewater treatment plant, or equivalent combination of education and experience.

## Physical Requirements

This work requires the regular exertion of up to 10 pounds of force, frequent exertion of up to 25 pounds of force and occasional exertion of up to 50 pounds of force; work regularly requires speaking or hearing, using hands to finger, handle or feel, reaching with hands and arms and repetitive motions, frequently requires standing, walking, climbing or balancing, stooping, kneeling, crouching or crawling, pushing or pulling and lifting and occasionally requires sitting and tasting or smelling; work has standard vision requirements; no special vocal communication skills are required; no special hearing perception is required; this work does not require any specialized sensory

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utilization; work regularly requires exposure to wet humid conditions (non-weather), working near moving mechanical parts, exposure to fumes or airborne particles, exposure to outdoor weather conditions and exposure to blood borne pathogens and may be required to wear specialized personal protective equipment, frequently requires exposure to toxic or caustic chemicals and occasionally requires working in high, precarious places, exposure to extreme heat (non-weather) and exposure to the risk of electrical shock; work is generally in a very quiet location (e.g. park trail, storage or file room).

### Special Requirements

Possession of a valid Virginia Class I Wastewater Works Operator license upon hire.  
Valid driver's license in the Commonwealth of Virginia.

Last Revised: 6/19/2017