

Sewage Treatment Plant Operator

North Bergen Municipal Utilities Authority (NBMUA)

Job Summary

Under the direction of the Superintendent, the Sewage Plant Operator is responsible for the efficient and regulated operation of the municipal wastewater treatment facility. This role involves controlling and adjusting pumps, valves, chemical feed systems, and other equipment to ensure wastewater is processed according to regulatory standards. The Operator performs routine monitoring, sampling, and light maintenance to ensure continuous plant functionality.

Essential Duties and Responsibilities

- **Plant Operation & Control:** Operates, regulates, and adjusts various plant mechanisms, including sewage plant pumps, valves, chemical feed machines, flow meters, and sludge thickeners.
 - **Flow Management:** Checks and adjusts water flow and levels within the treatment channels to optimize processing efficiency.
 - **Monitoring & Recording:** Takes periodic readings from relevant gauges, meters, and monitoring equipment, and accurately records this data in both electronic and/or manual information systems.
 - **Screening & Cleaning:** Performs manual tasks such as raking and cleaning bar screens and properly disposing of screened debris (bags/refuse).
 - **Sampling & Testing:** Collects regular sewage samples from various points within the treatment process. May perform routine, standardized laboratory tests on these samples to assess treatment efficacy.
 - **Maintenance & Inspection:** Conducts periodic inspections of the entire plant and equipment to identify and report malfunctions, needed repairs, and operational irregularities.
 - **Housekeeping:** Maintains the working area in a clean and sanitary condition, ensuring all equipment and testing paraphernalia are properly maintained and prepared.
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Required Knowledge, Skills, and Abilities

- Ability to **operate, adjust, and regulate** complex wastewater treatment. Working knowledge of the operation, adjustment, and minor maintenance of mechanical, hydraulic, and electrical equipment used in wastewater treatment (pumps, valves, motors, chemical feed systems).
- Ability to **read, interpret, and record** data from specialized gauges, meters, and plant instrumentation.
- Ability to **maintain detailed records**, accurate reports, log files, and learn new electronic data recording systems.
- Ability to **perform routine laboratory procedures** and maintain a safe, sanitary working environment.
- Ability to **detect and report** equipment malfunctions and respond effectively to operational issues and alarms, perform necessary checks and adjustments to plant flow.