

LABORATORY TECHNICIAN

Water Department

Nature of Work

This is a responsible level of work in the Water Plant Laboratory and its related operations.

Responsible for the routine and non-routine tests and analysis required of the laboratory in accordance with the requirements of the Illinois Environmental Protection Agency and the Illinois Department of Public Health.

Illustrative Examples of Work (Any position may not include all of the specific duties listed, nor do the examples cover all of the duties which may be required.)

Analyze water samples and interpret data.

Check and standardize solutions for uniformity; adjust and repair laboratory equipment.

Assist with laboratory records, reports, and Material Safety Data Sheet files.

Utilization of computer to store, retrieve and generate laboratory and plant records and reports; compile and enter data.

Perform clean up and testing work done in laboratory.

Requirements of Work

Completion of an Associates Degree in Water Treatment or equivalent subject, including courses in Chemistry, Water Plant Operation, Bacteriology and Computers; considerable experience in water treatment and experience as an approved analyst in a certified laboratory.

Achievement of Laboratory Analyst for Colilert technique by Illinois Department of Public Health within 6 months or the probationary period whichever is greater.

Knowledge of physics, biochemistry and related sciences.

Knowledge of methods and practices of modern water treatment procedures.

Knowledge of Illinois Environmental Protection Agency and Illinois Department of Public Health Certified Laboratory Rules and Regulations.

Ability to implement a comprehensive testing program to assure close adherence to prescribed limits for chemicals.

Ability to use the computer for storing information, generating reports and correlating data as directed.

Ability to perform routine testing including, but not limited to the membrane filtration technique, the standard plate count analysis, fecal coliform analysis, eschericia coliform analysis and the National Pollution Elimination System sample analysis.

Ability to maintain laboratory in compliance with Illinois Department of Public Health and Illinois Environmental Protection Agency Laboratory Certification Rules and Regulations under direction of the Laboratory Supervisor/Superintendent of Water Purification.