

**CLASS TITLE: SUPERVISING SANITARY CHEMIST**

**Class Code: 02727700**  
**Pay Grade: 30A**  
**EO: B**

**CLASS DEFINITION:**

**GENERAL STATEMENT OF DUTIES:** To be responsible for the management and supervision of sanitary and pretreatment laboratory services in a grade IV or larger wastewater treatment facility; to perform or be responsible for the performance of highly complex testing and analyses of effluents and discharges from and facility to assure compliance with environmental standards; and to do related work as required.

**SUPERVISION RECEIVED:** Works under the general direction of a wastewater treatment facility administrator with considerable latitude for the exercise of initiative and independent judgement; work is subject to occasional review through reports and conferences to assure conformance to required standards of operation.

**SUPERVISION EXERCISED:** Plans, organizes, supervises and reviews the work of professional, technical and nonprofessional staff assigned to the sanitary and pretreatment laboratories.

**ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:**

To be responsible for the management and supervision of sanitary and pretreatment laboratory services in a grade IV or larger wastewater treatment facility; to perform or be responsible for the performance of highly complex testing and analyses of effluents and discharges from the facility to assure compliance with environmental standards.

To be responsible for operation of testing equipment in carrying out qualitative and quantitative chemical tests and analyses in wastewater treatment facility sanitary and pretreatment laboratory such as the chlorine residual analyzer, ISCO samplers, portable samplers, varian gas chromatograph, varian atomic absorption spectrophotometer and various electronic data processing equipment used to test effluents and discharges from the facility and industrial sources.

To review all laboratory test data on a daily basis for accuracy and identification of noncompliance trends for the purpose of initiating corrective measures to meet Rhode Island Department of Environmental Management and United States Environmental Protection Agency requirements.

To troubleshoot all laboratory equipment and assure proper operations of such.

To supervise subordinates engaged in the daily collection and chemical, physical and bacteriological analyses of facility and industrial discharge.

To perform or supervise the performance of the most difficult analytical procedures in the wastewater treatment facility laboratories.

To provide expert testimony on issues relating to conformance of Rhode Island Department of Environmental Management and United States Environmental Protection Agency standards of acceptable discharge from wastewater treatment facilities.

To utilize electronic data processing equipment in the analysis of wastewater treatment facility and industrial discharge.

To establish methods and standards of operation in wastewater treatment facility laboratories.

To provide effective communication with administrators, subordinates and interested outside parties and agencies.

To participate in budget and procurement process for facility labs.

To perform miscellaneous laboratory duties as required.

To do related work as required.

## **REQUIRED QUALIFICATIONS FOR APPOINTMENT:**

**KNOWLEDGES, SKILLS AND CAPACITIES:** A thorough knowledge of the requirements of acceptable discharge applied to wastewater treatment facilities by the Rhode Island Department of Environmental Management and the United States Environmental Protection Agency; a working knowledge of the testing procedures and methods applied to testing of wastewater; a working knowledge of chemistry, microbiology and public health bacteriology as it applies to the testing and analysis of wastewater; a working knowledge of computer software applied to the analysis of sanitary lab data, the ability to interpret analytical test result for accuracy, applicability and reproducibility and statistical validity of data; the ability to plan, organize and control the work of professional and nonprofessional staff engaged in the sampling and testing of WWTF and industrial discharges in a sanitary laboratory; the ability to communicate with executives, professionals and other interested parties; and related capacities and abilities.

### **EDUCATION AND EXPERIENCE:**

Education: Such as may have been gained through: possession of a Bachelor's Degree in the field of Chemistry, Microbiology, Biochemistry, Bacteriology or a closely related field supplemented by the completion of graduate courses in the same field supplemented; and

Experience: Such as may have been gained through: employment in a responsible supervisory capacity in a sanitary laboratory or lab providing similar testing and analysis of water or wastewater to assure conformance to environmental requirements.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

Class Created: March 12, 1989

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