

Civil Division: Oneida County Government
Jurisdictional Class: Competitive
EEO Category: Technicians
Revised: 03/30/09

WATER RESOURCES CHEMIST

DISTINGUISHING FEATURES OF THE CLASS: This position exists in the Wastewater Treatment Plant and involves four areas of responsibility: Laboratory Director, Pretreatment Program Manager, Process Control Coordinator, and Administrative Assistant. The work is performed under the general direction of the Commissioner of Water Pollution Control, with leeway allowed for the exercise of independent judgment in carrying out the details of the work. Supervision is exercised over the work of pretreatment personnel, laboratory personnel, and operational personnel for process decisions. The incumbent performs related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

Supervises and directs two separate groups of professional level technical employees: the laboratory staff and the pretreatment staff;

Makes technical daily process control decisions necessary to ensure the proper treatment of wastewater;

Makes adjustments or supervises operational personnel in making process adjustments to the activated sludge system;

Primarily functions as Laboratory Director, which requires leading, organizing, and assigning complex chemical and bacteriological examinations used for effluent monitoring, process control and pretreatment testing;

Oversees the collection and analysis of wastewater samples by laboratory and operational personnel;

Oversees the collection and analysis of industrial waste samples from the collection system and industrial sites throughout the Sewer District by pretreatment and laboratory personnel;

Performs daily review of pretreatment activities, determines the daily goals necessary to satisfy regulatory requirements;

Works the interface between the regulatory agencies and the Sewer District in conjunction with the Commissioner;

Reviews, prepares and maintains many types of technical reports necessary to keep the sewer district in regulatory compliance;

Meets with industrial representatives and develops solutions to persistent environmental problems that could result in regulatory penalties;

Provides administrative assistance to the Commissioner, especially with technical aspects of the discharge permit and to satisfy the numerous complex regulatory demands of operating a regional sewer district.

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FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Thorough knowledge of modern laboratory practices, terminology and safety precautions; thorough knowledge of analytical chemistry and bacteriology related to examination of water, waste-water, industrial wastes and other materials; thorough knowledge of instrumental analysis; thorough knowledge of use and storage of chemicals; thorough knowledge of accepted quality assurance and quality control procedures for laboratories; thorough knowledge of Federal Pretreatment Program requirements and the industrial processes regulated by this program; thorough knowledge of permit writing, analytical reporting, enforcement procedures, and regulatory reporting requirements for the pretreatment program; thorough knowledge of the operation, control and maintenance of a wastewater treatment facility; skill in the operation and care of laboratory equipment; ability to be responsible for the process control of a large activated sludge system with nitrification; ability to trouble-shoot operating problems and produce a clean effluent; ability to direct and supervise, on a daily basis, the work of professional-level technically-trained staff in the laboratory and in the pretreatment area; ability to provide process control directions to certified wastewater treatment plant operators on shifts; ability to understand and follow complex technical oral and written instructions; sound professional judgment.

MINIMUM QUALIFICATIONS: Either:

- (A) Possession of a Master's Degree in sanitary or wastewater chemistry or a closely related field; **OR**
- (B) Graduation from a regionally accredited or New York State registered college or university with a Bachelor's Degree in chemistry, bacteriology or a closely related field, **AND** one (1) year of laboratory experience involving sanitary chemistry.

SPECIAL REQUIREMENT: Certain assignments made to employees in this class will require access to transportation to meet field work requirements in a timely and efficient manner.

Adopted: 03/02/82
Revised: 09/25/96; 03/30/09