

DEPARTMENT: ALL APPLICABLE
CLASSIFICATION: COMPETITIVE
APPROVED: 4/3/78

SANITARY CHEMIST

DISTINGUISHING FEATURES OF THE CLASS: These duties involve responsibility for maintaining required sanitary standards in the treatment of water and/or sewage and for determining chemical treatment procedures which will produce the most efficient and effective results within plant design limitations. A Sanitary Chemist works under the general supervision of the Chief Operator or assigned supervisor and is permitted considerable leeway for exercise of independent judgment in carrying out the technical aspects of the work. Supervision is exercised over the activities of subordinate laboratory technicians and other laboratory personnel. Supervises and participates in the chemical and bacteriological examination of sewage in a wastewater facility. Does related work as required.

TYPICAL WORK ACTIVITIES:

1. Plans and supervises the regular chemical, bacteriological, and microscopic examination of raw and treated water or sewage for compliance with sanitary regulations and efficient plant operation;
2. Plans, assigns, and reviews the work of laboratory technicians and other subordinate personnel;
3. Performs more difficult chemical, bacteriological, and microscopic examinations of water and sewage;
4. Instructs subordinates in laboratory procedures and in the proper care and use of laboratory equipment;
5. Reviews, analyzes, and interprets technical data and reports submitted by subordinates;
6. Oversees, tests, and is responsible for acceptable chemical and biological oxygen demand levels of plant effluent;
7. Conducts research and special studies to increase plant efficiency and to obtain improved results;
8. Confers regularly with Chief Operator or supervisor regarding on going operations and problems encountered;
9. Keeps informed on the latest developments in chemistry and sanitary science by the study of professional literature;
10. Recommends budgetary requests for laboratory operation and for chemical supplies required for treatment process;
11. Keeps accurate records and submits required reports to Federal, State and local agencies;
12. Maintains quality control of all laboratory procedures;
13. Confers with governmental officials, industry representatives and other interested parties in regard to water and sewage treatment matters.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Thorough knowledge of modern laboratory principles, practices, techniques, terminology, equipment, and safety precautions; thorough knowledge of the modern practices, techniques, and equipment used in chemical and bacteriological analysis of water and sewage; a high degree of technical skill in the operation and care of modern laboratory equipment and apparatus; ability to plan for, train, and supervise others in methodology of sanitary chemistry procedures; thoroughness; accuracy; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Graduation from a regionally accredited or New York State registered approved college or university with a Bachelor's of Science degree, including 30 semester hours of chemistry;

AND: 1. Two (2) years of experience in sanitary chemistry;

OR: 2. An equivalent combination of training and experience.

NOTE: Graduate study in sanitary or waste water chemistry may be substituted for the required experience on a year for year basis. Twenty (20) semester hours in the chemistry or related field, (in addition to the 30 required above) may equate to one year of experience and may be substituted on a year for year basis.

****SPECIAL NOTE FOR NIAGARA COUNTY SEWER DISTRICT NO. 1 AND THE NEWFANE SEWER DEPARTMENT:**

Pending completion of the Niagara County Waste water treatment plant in the event of sewage treatment plant operation, this position will perform the duties as directed by this specification where applicable under the Chief Operator's general supervision and will also act as Assistant to the Chief Operator. This assistance will be under direct supervision of the Chief Operator.