

CLASS TITLE: PRINCIPAL SANITARY ENGINEER

Class Code: 02900400
Pay Grade: 33A
EO: B

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To be responsible for the supervision, direction and administration of an assigned section within the sanitary engineering program; to perform professional engineering work within the section involving the most difficult and complex problems in sanitary engineering; and to do related work as required.

SUPERVISION RECEIVED: Works under the general supervision of the Division Chief with wide latitude for the exercise of initiative and independent judgement; work is subject to review through consultations and submitted reports for conformance to established policies and objectives and accepted sanitary engineering methods and techniques.

SUPERVISION EXERCISED: Plans, assigns, supervises and reviews the work of a professional, sub-professional, technical and clerical staff within an assigned section.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To be responsible for the supervision, direction and administration of an assigned section within the sanitary engineering program; to perform professional engineering work within the section involving the most difficult and complex problems in sanitary engineering.

As assigned, to supervise and administer a variety of sanitary engineering programs of domestic waste disposal, and involving such activities as: reviewing results of soil percolation tests and water table determinations to evaluate the suitability of the soil for sewage disposal and submitting recommendations to proper authorities relative to such waste disposal systems; inspecting waste water treatment plants to evaluate their efficiency and to make recommendations to proper authorities for their improvement; making engineering reviews of detailed plans and specifications prepared by consulting engineers of proposed wastewater treatment plant facilities and to make recommendations for revision in the design of such facilities to improve their effectiveness and reliability of performance; and conferring with local town or city officials involving problems of pollution abatement; or,

As assigned, to supervise and administer a sanitary engineering program of industrial wastes, water quality, and oil spillage and pollution control, and involving such activities as: reviewing plans and specifications of industrial waste disposal systems and conferring with designing engineers regarding required modifications, inspecting approved systems under construction and checking the efficiency of such systems, and soliciting industries causing water pollution to adopt adequate means of wastewater treatment; organizing and supervising water quality studies and surveys of state waters and making recommendations of changes in water quality classifications; and supervising the conduct of periodic inspections of oil carrying vessels and terminals transferring petroleum products to determine that transfer procedures comply with state rules and regulations; or,

As assigned, to supervise and administer a sanitary engineering program to maintain the safety of public and private drinking water supplies and public swimming pools, and involving such activities as: investigating the source of public drinking water supplies, the adequacy of treatment provided, hazards of the distribution system and the potability of the water as supplied to the consumer; consulting with and advising city and town officials, industry representatives, state agencies, institutions and the general public on matters pertaining to source, treatment and distribution of drinking water; reviewing plans and specifications of proposed water treatment plants and alterations to existing water treatment plants; making surveys of watersheds of public drinking water supplies; evaluating, in terms of sanitary quality, the results of physical, chemical and bacteriological tests of water samples taken from public and private

drinking water supplies; reviewing plans and specifications of proposed swimming pools or alterations to existing pools; or,

As assigned, to supervise and administer any other similar sanitary engineering program in an assigned section of responsibility within the Division.

To perform professional engineering work within the section involving the most difficult and complex problems in sanitary engineering.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough knowledge of the principles, practices and techniques of sanitary engineering and the ability to apply such knowledge in the supervision and administration of an assigned sanitary engineering program; a working knowledge of Bacteriology and Chemistry as they apply to water supply and pollution control; the ability to plan, assign, supervise and review the work of a professional, sub-professional, technical and clerical staff within an assigned section; the ability to perform the most difficult and complex problems in sanitary engineering; the ability to read and interpret complex engineering plans and specifications; the ability to provide consultation and advice to local planning boards, federal and state agencies, municipal and town officials, and representatives of industry regarding various problems of sanitary engineering; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from a college of recognized standing with specialization in Sanitary Engineering, Chemical Engineering, or Civil Engineering with a sanitary option; and advanced study at the graduate level, in Sanitary Engineering, or Civil Engineering with a sanitary option; and advanced study at the graduate level, in Sanitary Engineering or Public Health Engineering; and

Experience: Such as may have been gained through: employment in a responsible supervisory position in the field of Sanitary Engineering involving sewage and industrial waste detection and treatment, water supply and purification, or the detection and control of water pollution.

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

SPECIAL REQUIREMENT: At the time of certification must possess an Engineer-in-Training certificate of registration issued by the Rhode Island Board of Registration for Professional Engineers and Land Surveyors and must maintain such certification as a condition of employment.

Class Revised: July 5, 1987

Editorial Review: 3/15/2003