

CLASS SPECIFICATION
SAN DIEGO CITY CIVIL SERVICE COMMISSION
ENVIRONMENTAL SCIENTIST III – 1064

DEFINITION:

Under direction, to supervise the work of professional and technical staff performing biological, chemical, physical, bacteriological, microbiological, biological, molecular, bioaccumulation, and toxicological monitoring, analysis, and reporting for regulatory compliance and special studies; to perform difficult or complex analyses, research, and interpretations; and to perform related work.

*** EXAMPLES OF DUTIES:**

- Formulates, coordinates, and oversees field sampling and monitoring including, but not limited to, source water, drinking (potable) water, domestic and industrial wastewater, biosolids, recycled water, purified water, stormwater, ocean water, ocean sediments, and additional marine and freshwater environments;
- Coordinates preparation, collection, analysis, and reporting efforts of samples related to multiple National Pollutant Discharge Elimination System (NPDES) Permits, drinking water supply permits, air quality permits, and related programs or special studies;
- Selects, assigns, prioritizes, schedules, trains, rates, and supervises the work of professional and technical staff in a State Environmental Laboratory Accreditation Program (ELAP) certified laboratory engaged in performing chemical, physical, bacteriological, microbiological, biological, molecular, bioaccumulation, and toxicological monitoring, analysis, and reporting for regulatory compliance, process control, and special studies, and manages laboratory analyses;
- Manages and reviews processes and documentation required for laboratory certifications;
- Manages watershed surveys;
- Works with operating divisions to determine air quality compliance;
- Analyzes and interprets data, and makes recommendations based on monitoring outcomes;
- Assesses compliance with regulations and permit requirements;
- Reviews plant and animal species identifications;
- Performs and/or oversees method development, and designs and implements assessments and/or experimental protocols and establishes sampling procedures and analytical protocols;
- Formulates and evaluates new analysis procedures and tests and assesses their applicability for regulatory compliance and laboratory accreditation;
- Writes, reviews, and updates Standard Operating procedures (SOPs);
- Performs difficult identifications and data interpretations;
- Develops and monitors quality assurance procedures and training programs;

*** EXAMPLES OF DUTIES performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.**

- Troubleshoots chemical, physical, bacteriological, microbiological, biological, molecular, bioaccumulation, or toxicological analyses;
- Researches and evaluates wastewater or water systems and the environment;
- Determines regulatory compliance by understanding monitoring and reporting requirements; monitors work to ensure compliance with regulatory guidelines;
- Performs complex data query, reduction, and reporting activities;
- Prepares and submits technical regulatory compliance reports and narrative reports;
- Liaises with other divisions, regulatory agencies, and interagency committees to coordinate sampling, data analysis, and reporting functions and to ensure that laboratory data are consistent and accurate;
- Assists management with regulatory permitting issues;
- Assists with treatment facility regulatory compliance;
- Reviews and comments on new legislation or regulations for source water, drinking (potable) water, domestic and industrial wastewater, biosolids, recycled water, purified water, stormwater, ocean water, ocean sediments, and additional marine and freshwater environments;
- Confers with equipment and supply vendors, researches and procures complex laboratory or oceanographic instrumentation;
- Participates in annual budget processes and makes budget recommendations on section personnel or capital outlay needs;
- Performs underwater surveys with remotely operated vehicles;
- Writes and modifies the laboratory's computer application programs; and performs database and network administration and data management functions;
- Ensures compliance with safety procedures and protocols;
- Manages, develops, and performs GIS functions and spatial analyses;
- Provides support to technical and administrative staff making procurements of laboratory and monitoring equipment, supplies, and services;
- Conducts tours of laboratories and facilities and assists in the development of scientific outreach and communication materials;
- Documents misconduct and performance-based issues of staff and works with human resources staff on disciplinary issues.

MINIMUM QUALIFICATIONS:

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Description for updated minimum qualifications: <https://www.governmentjobs.com/careers/sandiego/classspecs>.

College graduation with a Bachelor's Degree in Analytical Chemistry, Biology, Chemistry, Environmental Studies, Marine Biology, Microbiology, Molecular Biology, Oceanography, Physical Chemistry, Zoology, or a closely related biological, chemical, or physical science; **AND** two years of full-time professional level experience in a scientific field including, but not limited to, laboratory work, regulatory compliance assessments, quality control, or field work.