

INDUSTRIAL WASTE TECHNICIAN

DEFINITION

To perform a variety of technical duties that support the City's Industrial Waste Pretreatment Program and Water Quality Laboratories; and to perform related work as required.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from the Environmental Utilities Compliance Administrator.

Receives technical and functional supervision from the Industrial Waste Specialist.

EXAMPLES OF ESSENTIAL DUTIES – Duties may include, but are not limited to, the following:

Set up, calibrate, and operate a variety of laboratory equipment and instruments; perform minor maintenance of laboratory equipment and instruments.

Recognize and troubleshoot issues in analytical procedures or confer with others to identify possible problems affecting results; recommend changes in procedures, as appropriate.

Collect various samples for analysis from the City's Wastewater Treatment Plants according to a predetermined schedule; collect National Pollutant Discharge Elimination System (NPDES) samples as permits warrant; develop sampling plans, schedule and set up for special projects/studies as needed to meet regulations and plant operational needs; prepare and preserve samples for transportation, storage, and laboratory testing.

Prepare standard chemical solutions, reagents, and bacteriological media; keep laboratory facilities clean and in an orderly condition; order supplies and make recommendations regarding equipment purchases.

Enter laboratory data into a computer system for further analysis and reporting purposes; maintain laboratory records, chain of custodies and prepare required reports; prepare and upload EDD files from contract labs to the HDR; update and institute necessary changes to the HDR IW database.

Wash, clean, and sterilize glassware and other equipment; sterilize bacteriological supplies.

Collect wastewater from industrial facilities, potable water, swimming pool and surface water samples for chemical, bacteriological and biological analysis to ensure compliance with Federal, State and Local regulations.

Set up, calibrate, and operate a variety of field instrumentation including, but not limited to pH, conductivity, dissolved oxygen meters and portable composite/discrete samplers.

Learn and adhere to all plant related and Industrial user determined safety and proprietary requirements.

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Assist Industrial Waste Specialist in determining sources and methods of identifying pollutants by field investigations including collecting samples at industrial sites.

Build and maintain positive working relationships with co-workers, other City employees, and the public using principles of good customer service.

Perform related duties assigned.

MINIMUM QUALIFICATION

Knowledge of:

Wastewater and water treatment processes used in monitoring the effectiveness of such processes.

Operation and maintenance of equipment used in the collection of water and wastewater samples.

Principles and practices of biology, chemistry and bacteriology, including methods and techniques of laboratory testing and analysis.

Pertinent Federal, State and Local ordinances.

Ability to:

Perform technical duties in the performance of chemical, biochemical, and bacteriological tests.

On a continuous basis, know and understand operations, and observe safety rules; analyze problem equipment and/or procedures; know and apply techniques and terminology; communicate and explain test result to others.

Intermittently, sit while studying or preparing reports or stand at laboratory bench while performing laboratory tests; bend, squat, climb, kneel and twist when performing various field site sampling duties; perform simple and power grasping, pushing, pulling, and fine manipulation; use telephone, computer or communicate through written means; and lift or carry weight of 50 pounds or less.

Operate laboratory equipment.

Learn to evaluate various analytical procedures to satisfy permit specifications

Learn to evaluate the outcomes of laboratory results in order to detect errors.

Perform technical duties in the collection and testing of wastewater, drinking water, sludge, industrial waste, surface water, and other related sample sources; check pretreatment facility plans.

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Use a personal computer and various programs to enter, maintain, and analyze data, and to prepare reports and correspondence.

Communicate clearly and concisely, both orally and in writing.

Establish and maintain effective working relationships with those contacted in the course of work.

Experience and Training

Experience:

Two years of experience involving the performance of laboratory testing.

Training:

An Associate's degree or 60 semester units of college level course work including 18 units in a major field of study and 21 units in general education from an accredited college or university, preferably with major course work in chemistry, bacteriology, biology or a related field. Two years of related work experience can substitute for an Associate's Degree.

License or Certificate

Possession of a valid California driver's license by date of appointment.

Possession of California Water Environment Association (CWEA) Laboratory Analyst 1 certificate within 1 year of appointment.

07-26-19

11-16-13

06-24-06 Industrial Waste Technician