

SNOHOMISH COUNTY JOB DESCRIPTION

WATER QUALITY ANALYST

Spec No. 3170

BASIC FUNCTION

To establish and maintain computerized data base for water quality monitoring program, to analyze data and evaluate the effects of pollutants on aquatic resources and to make recommendations to insure county compliance with state and federal water quality laws. Develops and proposes monitoring methods, procedures and programs.

STATEMENT OF ESSENTIAL JOB DUTIES

1. Establishes and maintains computerized data base for county's water quality monitoring program; performs statistical analysis of data, interprets results, and makes recommendations for bringing county into compliance with state and federal water quality standards.
2. Schedules the work of technicians responsible for collecting water quality samples; develops quality control guidelines for field and lab procedures; assists field technicians in collecting stream surface water samples, conducting field tests, identifying sources of water quality problems, and performing maintenance of field and sampling equipment as needed.
3. Serves as staff contact for technical advisory committee and citizens involved in county's water quality monitoring program; organizes monthly meetings, prepares agendas, and conducts public meetings.
4. Researches and analyzes water quality issues and problems and prepares reports and recommendations as required to meet state and federal water quality laws.
5. Assists in preparing grant applications for state and federal funding for water quality programs. Maintains expense records for county's water quality programs and prepares reports and billings as required by grant contracts.
6. Reviews federal and state documents and current scientific literature to maintain up-to-date knowledge of regulations and methods regarding water quality issues.
7. Drafts contracts with consultants and laboratories for work related to the county's water quality monitoring program; solicits laboratory bids for water quality analysis and insures compliance with quality control procedures; examines bills from consultants and recommends action.
8. Performs related duties as required.

MINIMUM QUALIFICATIONS

A Bachelor's degree in chemistry, microbiology, environmental engineering, limnology, biology, or related scientific field; AND, two (2) years work experience performing routine environmental field sampling and analyzing water quality data; OR, any equivalent

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MINIMUM QUALIFICATIONS (Continued)

combination of training and/or experience that provides the required knowledge and abilities. Advanced course work in an environmental field may be substituted for experience on year-for-year basis. Must pass job related tests.

SPECIAL REQUIREMENTS

A valid Washington State Driver's License may be required for employment.

Confined space entry certification may be required as part of the employee's training program.

KNOWLEDGE AND ABILITIES

Knowledge of:

- the sources of pollutants in aquatic environments and the impacts on beneficial uses;
- water quality monitoring objectives;
- methodology for collecting water quality samples and compiling data;
- chemistry and aquatic ecology;
- state and federal water quality standards;
- quality control procedures for field and laboratory treatment of water quality samples;
- operation and maintenance of water quality monitoring equipment.

Ability to:

- set up and maintain a computerized data base for water quality data;
- perform statistical analysis of water quality data, interpret results and prepare recommendations about program objectives;
- collect water quality field data, prepare and organize clear and accurate field notes;
- develop quality control guidelines for field and laboratory procedures for water quality monitoring program;
- research and analyze scientific literature on water quality issues and prepare reports and recommendations regarding county policies and expenditures;
- prepare and organize clear and concise field and office records and reports;
- establish and maintain effective working relationships with superiors and co-workers.

SUPERVISION

The employee reports to a Senior Water Quality Analyst or an administrative superior as assigned. The work is performed with considerable independence and is reviewed through status reports and meetings.

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WORKING CONDITIONS

The work is performed in a regular office environment and outdoors in all types of weather conditions. Some sample collection and equipment maintenance may require confined space entry. Flexible work hours may be required to accommodate storm sampling.

Snohomish County is an Equal Employment Opportunity (EEO) employer.
Accommodations for individuals with disabilities are provided upon request.

[EEO policy and ADA notice](#)

Class Established: August 1991, Previous Spec #420420

Revised: November 2008, November 2015

EEO Category: 2 – Professionals

Pay Grade: 239 – Classified

Workers Comp: 1501 - Hazardous