

DESCRIPTION: Under general supervision, has technical responsibility for the evaluation of the quality and quantity of groundwater available for domestic use and for informing those responsible for the regulation, development and management of the groundwater resource; provides instruction on matters pertaining to groundwater geology; performs related work as assigned.

DISTINGUISHING CHARACTERISTICS: (A position is assigned to this class based on the scope and level of work performed as outlined below.)

This is the second classification level of two in the professional Geologist/Groundwater series. Positions allocated to this class perform work at full-performance with greater independence and may serve as a mentor to Geologist/Groundwater I staff.

This series is distinguished from the Environmental Quality Program Specialist series by the primary focus of evaluating the quality and quantity of groundwater utilizing geological methods. Positions allocated to the Environmental Quality Program Specialist class series conduct planning, investigation, surveillance, monitoring and enforcement duties applied to air, land and water resources.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do these examples include all the duties that may be assigned.)

Collects and analyzes groundwater samples to study, interpret and evaluate environmental data.

Conducts technical reviews of contamination assessments, cleanups and remedial action plans to determine need for and level of groundwater monitoring.

Prepares and presents results of technical reviews using visual interpretive depictions of environmental data and letters, reports or maps.

Reviews permit applications including geological/hydrogeological characterizations and groundwater monitoring plans to determine potential environmental impact.

Conducts groundwater monitoring inspections of facilities and writes groundwater monitoring and corrective action plans or evaluations.

Reviews available geological, hydrological, and chemical data for the purpose of advising owners of existing and proposed public water supply systems of the safety and reliability of the groundwater source and the efficiency of well installations.

Performs statistical and data analysis to identify groundwater quality and potential contamination sources.

Coordinates and maintains liaison with the University of Nebraska's Conservation and Survey Division and the well drilling industry relative to implementation of the Nebraska Safe Drinking Water Act.

Assembles and maintains a historical record of the groundwater withdrawal practices carried out by cities and villages.

Evaluates and assists in the establishment of parameters associated with well design.

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Investigates the geological aspects of water well failures and participates in the establishment of design criteria assuring greater reliability for future installations.

Advises owners on the proper methods to be used in the abandonment of wells.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED: (These are needed to perform the work assigned)

Knowledge of: State of Nebraska geology and groundwater resources; Nebraska geology and the storage and movement of groundwater as influenced by geological phenomenon; cause and effect of contamination in groundwater; governmental and private sources of information relating to water in the environment; drilling and construction techniques involved in the withdrawal of groundwater; statistics, arithmetic and their applications; practical application of engineering science and technology; principles and methods for describing features of land masses including physical characteristics and distribution of plant, animal and human life.

Skill in: communicating with individuals and groups with varying technical backgrounds to collect and relay information; listening to and understanding others; prioritizing workloads; using analytical judgment to make decisions; public speaking and providing presentations.

Ability to: learn and apply applicable local, State and federal laws, regulations and standards; establish and maintain effective working relationships with individuals in order to obtain their cooperation in the selection of water supply sources and methods of withdrawal; communicate technical information to staff members, developers and users of groundwater; assume a major role as an agency representative in statewide water management efforts; work outside in varying elements and terrains.

MINIMUM QUALIFICATIONS: (Applicants will be screened for possession of these qualifications. Applicants who need accommodation in the selection process should request this in advance.)

Bachelor of Science Degree in geology, the physical sciences, geography, environmental science, soil science, civil engineering, environmental engineering or a related field consistent with the duties of the position AND one year of full-time professional experience in a related field, consistent with the duties of the position.

SPECIAL NOTES:

Some positions in this class may require an applicant to possess a current professional license/degree/certificate within a professional field prior to appointment to the class.

Positions in this class may require an employee to possess a valid driver's license or the ability to provide independent authorized transportation, in order to perform work-related travel.

Regular day travel within the state required; overnight travel on occasion. It may be necessary to work irregular hours to accomplish work tasks.

State agencies are responsible to evaluate each of their positions to determine their individual overtime eligibility status as required by the Fair Labor Standards Act (FLSA).