

TERRITORIAL HYDROGEOLOGIST

NATURE OF WORK IN THIS CLASS

Plans, directs and coordinates the management and operation of the hydrogeological programs and services involving the protection of the environment, especially the waters of the Territory of Guam. Employees in this class serves as a technical advisor to the Administrator of GEPA, the Water Program Division Administrator, the Air and Land Programs Administrator and the Monitoring Services Division Director, of matters relating to the contamination of the northern Guam aquifer and other fresh and marine waters of the Territory from numerous types of contaminant sources.

ILLUSTRATIVE EXAMPLES OF WORK (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed.)

Serves as the territorial expert on hydrogeology concerning the protection of groundwater from sources of contamination and corrective action to restore or isolate contaminated groundwater. Utilizes technical expertise to plan, coordinate and advise on hydrogeologic projects of a broad scope. As a territorial expert, provides recommendations to all levels of management on groundwater issues.

Provides expert hydrogeologic advice and assistance by evaluating reports, projects, special studies, investigations and/or research on groundwater contamination or protection problems prepared by the Territorial Superfund program, contractors, Federal agencies or the States. As a territorial expert, provides peer review for engineers and scientists in the Superfund program on groundwater issues.

Evaluates the applicability on new and established groundwater models for site specific groundwater contamination problems. Appropriate models are utilized by inputting site specific data to predict the impact to groundwater from site-related contaminants. Predictions provide support for recommendations. Provides training for other staff members and State personnel in the selection and implementation of appropriate groundwater models.

Provides high level technical assistance to Territorial and other local agencies regarding groundwater contamination problems and implementation of mitigation measures. Provides technical guidance based upon scientific applications of Superfund and the EPA Groundwater Protection Strategy. Furnishes and explains current policies, guidelines and regulations to Territorial agencies, and Guam EPA staff.

Provides comments on Remedial Investigation/Feasibility Studies (RI/FS's), groundwater investigation reports and enforcement related documents prepared or proposed by Guam EPA or PRP contractors assuring conformance with U.S. EPA and Guam EPA technical standards.

Performs full range of analysis to determine compliance with U.S. EPA and Guam EPA groundwater requirements, including review of geologic literature, determination of need for additional field work, negotiations with facilities to perform field work, analysis of potential for contaminant migration and analysis of groundwater monitoring systems.

Acts as the Program Manager of all environmental restoration activities on federal property on Guam regulated by Comprehensive Environmental Response, Compensation and Liability Act CERCLA (federal superfund), including Anderson Air Force Base, Naval Air Station and all other Navy activities on Guam.

Prepares briefings, and reports and represents the Territory at meetings, seminars, and conferences with U.S. EPA management and program staff, other agencies and the public in matters relating to the groundwater hydrologic implementation of CERCLA and other hydrogeologic matters.

Gathers and shares information on the latest technology in groundwater investigations including monitoring, sample collections, modeling and corrective action. Establishes contracts and consults with experts and authorities in the field of hydrogeology and groundwater hydrology or related sciences who are located in universities and other Territorial agencies, federal agencies, other EPA Regional offices and within Region IX. Reviews the appropriate technical literature for state-of-the-art methodologies and interpretation.

Performs field investigations, as requested, to assist in the evaluation of groundwater contamination problems. Provides training to Guam EPA and other Territorial personnel on inspection techniques for groundwater compliance.

Reviews and comments on national and Territorial policies concerning groundwater monitoring and corrective action. As assigned, participates in Territorial, regional and national work groups such as regulation development work groups or task forces, which will utilize the incumbent's expertise as a hydrogeologist.

Performs related duties as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS

Knowledge of groundwater hydrology and geology concepts, theories, principles and practices and a familiarity with pertinent related sciences including chemistry, mathematics, physics, soil sciences and aqueous geochemistry concepts to effectively perform duties for the protection of groundwater.

Knowledge of and experience with current hydrogeological field techniques for the measurement of groundwater geochemical trends and hydrodynamic properties in porous and karstic terrains.

Knowledge of Guam EPA and the U.S. EPA programs involved in groundwater protection such as Superfund and Resources Conservation and Recovery Act (RCRA).

Ability to administer and provide technical expertise on all groundwater and geological issues which may arise during GEPA's enforcement pursuant to statutes and regulations.

Ability to interpret groundwater hydrology manuals and publications, textbooks, Territorial and Federal codes and standards, agency policy and program directives.

Ability to effectively represent the Territory, Guam EPA and the Superfund program at meetings, seminars and conferences with Regional/Headquarters management and program staff, and other agency representatives.

Ability to work effectively with the public and employees.

Ability to communicate effectively, orally and in writing.

Ability to prepare technical reports.

Skill in applying groundwater models for depicting contaminant flow in groundwater systems.

Skill in applying hydrologic concepts to groundwater contamination problems and in assessing the impact of waste chemicals on the groundwater environment in order to allow development of appropriate Agency response.

Skill in interpreting and applying or implementing regulations, guidance and policy in a consistent manner for the protection of groundwater.

MINIMUM EXPERIENCE AND TRAINING

- A. Ten (10) years of progressively responsible professional experience in hydrogeology, including two (2) years in karst situations with an emphasis on experience in the Territory and graduation from a recognized college or university with a Master's degree in hydrogeology or geology with emphasis on hydrogeology; or
- B. Any equivalent combination of experience and training beyond the Master's degree which provides the minimum knowledge, abilities and skills.

NECESSARY SPECIAL QUALIFICATIONS

Possession of active certification as a Registered Geologist in a state with national recognition.

ESTABLISHED: MARCH 1995

PAY GRADE: R

HAY EVALUATION:

KNOW HOW:	FI3	350
PROBLEM SOLVING:	E4 (43%)	152
<u>ACCOUNTABILITY:</u>	<u>E2P</u>	<u>200</u>
TOTAL POINTS:		702



ELOY P. HARA

Executive Director
Civil Service Commission