Job Title: Staff Engineer

Department: Engineering

Effective: 08/18

Pay Grade: 19

GENERAL PURPOSE

Provides engineering services to the District as required: oversees all water system design activities for the District, manages all water quality programs, ensures federal and state regulatory requirements are met, manages engineering and construction contracts and projects. Assists the General Manager on specific engineering tasks as assigned.

SUPERVISION RECEIVED

Receives direction from the General Manager.

ESSENTIAL JOB FUNCTIONS

Manages all water system design activities for the District including system expansion due to customer growth, facility upgrades, new facility design.

Manages water quality programs across all District Operations. Works with the Water Quality Technician, Water Treatment Plant Manager, and Distribution System Manager in the design and direction of water quality improvement programs and process optimization activities.

Ensures the District is meeting all regulatory requirements, maintains relationships with Utah’s Division of Drinking Water, Utah’s Water Quality Alliance, and reports on and prepares for changes in drinking water regulations.

Acts as the technical liaison of the District; performs report writing activities and presentations to internal staff, the District’s Administrative Control Board, and the public. Responds to inquiries from individuals and groups.

Performs construction management tasks, site inspections, and assists the Operations Department as required in field decision making.
Prepares specifications, works with engineering consultants in the development of construction drawings, reviews plans for conformance with District standards.

Helps select engineering consultants to perform various design testing and project management services depending on the project complexity, schedule and District personnel constraints.

Assists in administering consultant and construction contracts.

Evaluates and recommends capital improvements for the District including the analysis of alternatives, cost benefit analysis, and presentation of preferred approach.

Maintains the District’s hydraulic modeling software. Prepares complex models and designs of District water facilities.

Assists the Technology and Energy Department with pump selection and performance evaluation.

Evaluates and coordinates approval of design and application documentation relating to the construction, permitting, development, expansion, or modification of water facilities.

Attends meetings as needed or required.

MINIMUM QUALIFICATIONS

1. Bachelor’s Degree in Civil Engineering, Environmental Engineering or related engineering field. AND
   A minimum of three years experience as an engineer in a drinking water related field OR
   An equivalent combination of education and experience

2. Knowledge, Skills, and Abilities:

   Knowledge of engineering practices and principles related to design, construction, operation and maintenance of water facilities.

   Knowledge of water production, storage, treatment, and distribution guidelines and practices.

   Knowledge of state and federal rules and regulations pertaining to water facilities.

   Knowledge of laboratory procedures and sampling techniques.
Knowledge of current computer and technological developments in water including hydraulic modeling, SCADA, and GIS applications.

Ability to communicate effectively, both verbally and in writing, and to prepare complex, written studies, plans, correspondence, and reports, both timely and accurately.

Ability to work independently.

Ability to read and comprehend detailed plans and engineering documents.

Ability to establish and maintain effective working relationships with engineers, contractors, developers and District staff.

3. Special Qualifications (Certifications, Licenses)

Professional Engineer’s (PE) License is preferred

WORK ENVIRONMENT

Performs in:

1. A typical office setting with appropriate climate controls. Tasks require variety of physical activities, not generally involving muscular strain, such as walking, standing, stooping, sitting, or reaching. Rapid work speed sometimes required; attention to detail. Common eye, hand, finger, leg and foot dexterity exist. Mental application utilizes memory for details, verbal instructions, emotional stability, discriminating thinking and some creative problem solving;

2. The outdoor mountainous environment. Tasks require a variety of physical activities related to site inspections and construction management in rough terrain.

3. While performing the duties of this job, the employee is occasionally required to sit, stand, climb, balance, stoop, kneel, crouch, crawl, walk, run, jump; to use hand to finger, handle, or operate objects, tools, or controls, and reach with hand and arms. The employee is occasionally required talk, hear, taste and smell.

Specific vision, abilities required by this job includes close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

Mental application utilizes memory for details, verbal instructions, emotional stability, and creative problem solving.