



# CENTRAL UTAH WATER CONSERVANCY DISTRICT

## Job Description

Revised: April 2026

<b>JOB TITLE:</b>	Watershed Analyst
<b>REPORTS TO:</b>	Watershed Programs Manager
<b>DEPARTMENT:</b>	Finished Water
<b>LOCATION:</b>	DACRWTP, Orem, UT
<b>STATUS:</b>	Non-Exempt
<b>SALARY GRADE:</b>	9

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### JOB SUMMARY

This position assists in the implementation of District watershed programs, develops, and implements watershed projects with a focus on wildfire mitigation, performs watershed monitoring, water quality testing and research, and provides technical assistance for three (3) drinking water (NELAP certified) laboratories.

### ESSENTIAL FUNCTIONS

*Essential & other important responsibilities & duties may include, but are not limited to, the following:*

1. Performs water quality monitoring of reservoirs and streams including water chemistry, phytoplankton, periphyton, and macroinvertebrates. Assists in implementation of water quality monitoring programs, including the Provo River Watershed Council work plan and other District watershed programs. Calibrates and maintains field water quality monitoring equipment and stations.
2. Develops and implements watershed projects with a focus on mitigation of wildfire impacts to source water quality for three (3) drinking water treatment plants. Coordinates wildfire mitigation projects with US Forest Service, Forestry Fire & State Lands, Shared Stewardship, Watershed Restoration Initiative, NRCS and other local, state, and federal partner agencies.

3. Performs laboratory analyses and quality control checks in accordance with NELAP specifications.
4. Assists in finished water quality sampling, analysis, reporting, and data handling and analysis on ongoing water treatment process optimization and special water quality projects including R&D with external and internal agencies. Participates in various research projects, including internal improvement projects and Water Research Foundation projects.
5. Knowledge of basic limnology and lake dynamics, nutrient/algae responses, watershed pollution potential, watershed health, wildfire impacts to water quality and mitigations strategies, and beneficial use designations as established in the Clean Water Act.
6. Knowledge of microscopy in order to evaluate water quality with an emphasis on algae.
7. Inputs, manipulates, and assists with management and interpretation of water quality data using a computer and word processing, spreadsheet software and relational databases.
8. Assist in watershed education. Teach internal college level science coursework for staff.
9. Actively participates in interagency groups including the Provo River Watershed Council, Uintah Basin Watershed Council, Shared Stewardship and Utah's Watershed Restoration Initiative.

## **MARGINAL FUNCTIONS**

1. Performs other related duties as assigned.

## **SUPERVISION RESPONSIBILITIES**

No supervisory duties required.

## **KNOWLEDGE, SKILLS, AND ABILITIES (KSAs)**

Ability to work in a laboratory and perform basic wet chemistry and follow established laboratory testing procedures. Apply principles of logical and scientific thinking, perform laboratory testing, collect data, establish facts, and identify valid conclusions; to assist in interpreting various water quality objectives.

Ability to communicate effectively and coordinate with various stakeholders on development and implementation of complex watershed projects.

Ability to input water quality data, analyze and interpret various water quality trends, and then prepare and present water quality presentations in various professional settings.

Ability to drive a vehicle to various work sites, travel in a boat, and collect water samples according to established procedures.

Ability to input and retrieve data on computer including data logging and spreadsheets.

Ability to work in various locations and weather conditions.

Ability to work independently with minimal or no supervision.

Ability to adapt to situations requiring the precise attainment of set limits, or standards; to be precise, thorough, exacting, or meticulous in regard to water quality analysis, or in activities such as numerical determinations and record preparation.

Ability to maintain relationships that facilitate task accomplishment; to cooperate and resolve conflicts, to recognize needs and be sensitive of others.

Ability to receive guidance and supervision; follow work rules, safety practices, work procedures; meet deadlines, punctuality, and attendance requirements, etc.

Ability to recognize and understand various chemical formulas, organize and handle various chemicals according to the MSDS and established procedures.

Ability to use/operate pen/pencil, PC, and various software (word processing and spreadsheet) 20 - 40% of the time.

Ability to exercise intermediate math skills including geometry and algebra; ability to calculate basic chemical formulas.

Ability to grasp; to pick, pinch, or otherwise work primarily with fingers rather than with the whole hand or arm as in handling, i.e., working with water sample bottles, surveying equipment, etc.

Ability to be subject to noise: there is sufficient noise to cause the worker to shout in order to be heard.

Ability to be subject to vibration: exposure to oscillating movements of the extremities or whole body.

Ability to be subject to hazards: includes a variety of physical conditions, such as proximity to moving mechanical parts, electrical current, working on scaffolding and in high places, working inside pipes or tunnels, on or near bodies of water (dams, reservoirs, rivers etc.), exposure to chemicals.

Ability to exercise close vision to read, compute, record numerical data.

Ability to apply common sense understanding to carry out detailed, involved instructions; to deal with problems involving several concrete variables in or from standardized situations.

Ability to read technical manuals, laboratory manuals, catalogs, instructions, etc.

Ability to prepare logs and reports: using proper format, punctuation, spelling and grammar.

Ability to communicate distinctly with appropriate pauses and emphasis; correct pronunciation (or sign equivalent) and variation in word order; using present, perfect, and future tenses.

## **PHYSICAL DEMANDS & WORKING ENVIRONMENTS**

*The physical demands and working environment demand described here are representative of those that must be met by an employee to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.*

### **Environment:**

Works indoors and outdoors; often work is in conditions of extreme cold (below 32 degrees) and in conditions of extreme heat (above 95 degrees) for periods of 1 hour or more.

### **Physical:**

Requires sufficient mobility to walk, stand, and sit for prolonged periods of time, to climb stoop, bend, kneel, crouch, crawl, reach, and twist; push, pull, lift, exert up to 50 lbs. of force/weight occasionally, and/or more than 20 lbs. of force frequently to move and/or carry objects when working on mountainous and/or uneven surfaces or terrain.

Demonstrate adequate hearing and speech to converse in person and by phone. Exercise vision to read printed materials and use a computer screen. Periodically may drive to various meetings, appointments, etc. Position may require the ability to work overtime.

## **QUALIFICATIONS**

*Required to meet a combination of Experience/Education/Certification/License/Training in the following.*

1. Bachelor's Degree of Science in biological, chemical, physical sciences, or related field plus experience related to job tasks (experience with wildfire mitigation preferred).
2. Valid Utah Driver's license with satisfactory driving record (MVR).