

## **ELK GROVE UNIFIED SCHOOL DISTRICT**

### **CLASS TITLE: WATER QUALITY/WASTE WATER/IRRIGATION CONTROL SYSTEM SPECIALIST**

#### **BASIC FUNCTION:**

Under direction of Area Supervisor, Grounds, perform skilled and semi-skilled work in the operation of wells and pumping stations, back flow preventers, and waste water treatment plants, and assist in the development and implementation of the centrally controlled computerized irrigation control system and operate, monitor, adjust, and maintain the systems; support and participate in related functions of the district energy/utilities management program.

#### **ESSENTIAL FUNCTIONS:**

Perform and interpret standardized water quality tests such as chlorine residual, PH, turbidity, alkalinity, and jar tests, and make dosage and related adjustments based upon the results from such tests.

Make scheduled and preventive maintenance checks on facility equipment such as pumps, chlorine injectors, back flow preventers and motors. Perform routine repairs, servicing and adjustments to equipment.

Load and unload liquid chlorine containers, clean tanks, chemical feeders, reservoirs and filter basins.

Monitor operation of water wells by reading meters and gauges, operating valves, pumps, and other controls to adjust water flow, pressure, and chemical dosages. Make calculations and keep continuous and accurate records of all work performed.

Collect samples in water, waste water (effluent and influent) and deliver to lab for test processing.

Perform annual back flow testing according to County of Sacramento Environmental Management Department regulations.

As requested, participate in the development, implementation and promotion activities of the district energy/utilities management and water consumption awareness programs within the district.

Operate a centrally controlled computerized irrigation control system(s) and perform continuous review of the systems to monitor performance and to maintain settings and schedules. Monitor and perform operations with District irrigation systems that may not be managed by the centrally controlled systems.

Utilize weather and water consumption data; set up and adjust schedules.

Test system efficiency as changes are made at established, remodeled, and newly constructed sites.

## **Water Quality/Waste Water/Irrigation Control System Specialist- Continued Page 2**

Review plans and specifications and serve as technical resource for irrigation systems management and water conservation.

Utilize weather and water consumption data to set up and adjust schedules.

Work with district staff to make recommendations and/or adjustments to resolve a variety of irrigation problems and issues; make site visits to survey landscape and soil conditions, determine and implement site requirements, and observe effectiveness.

Perform routine equipment maintenance.

Responsible for maintaining consistent, punctual and regular attendance.

Perform related grounds maintenance work.

Perform other related duties as assigned.

### **DEMONSTRATED KNOWLEDGE AND ABILITIES:**

#### **KNOWLEDGE OF:**

Electric Water Pumps

Chemical Pumps

Waste Water Treatment Plants

Wells

Chlorine Injectors

Backflow Preventers for Fire, Irrigation and Domestic Use

Operation of multi-site irrigation central control system.

Scheduling workload in consideration of irrigation and central control system needs.

Reading and understanding meters, gauges, valves pumps and other controls.

Water collections and testing procedures and practices.

Safe and efficient work practices related to mechanical and electrical equipment; landscape management, soil conditions, sub-climates, irrigation requirements, and computerized control system operation, applications, and theory.

Grounds maintenance procedures including mowing, edging, raking and weeding.

Methods, equipment and materials used in grounds maintenance work.

Operation of a computer and assigned software.

Proper methods of storing equipment, materials and supplies.

Health and safety regulations.

Proper lifting techniques.

Record-keeping and report preparation techniques.

Oral and written communication skills.

Interpersonal skills using tact, patience and courtesy.

Basic math.

**ABILITY TO:**

Learn principles, operation and maintenance requirements of wells, pumps and motors.  
Learn basic principles and methods used in mechanical and electrical trades.  
Learn, apply and explain applicable laws, codes, rules and regulations related to assigned activities.  
Perform a variety of grounds maintenance duties in the beautification of assigned grounds and landscaped areas.  
Operate hand and power tools and other equipment used in grounds maintenance.  
Service and maintain assigned tools and equipment.  
Make mathematical calculations.  
Meet schedules and time lines.  
Make oral and written reports.  
Work independently with little direction.  
Communicate effectively both orally and in writing.  
Establish and maintain cooperative and effective working relationships with others.  
Speak, read and write English at a level required for satisfactory job performance.  
Maintain consistent, punctual and regular attendance.  
Move hands and fingers to operate specialized tools and equipment.  
Hear and speak to exchange information.  
See to read a variety of materials.  
Sit or stand for extended periods of time.  
Reach overhead, above the shoulders and horizontally.  
Bend at the waist, stoop, kneel or crouch.  
Use proper lifting methods.

**EDUCATION AND EXPERIENCE REQUIRED:**

Any combination equivalent to: graduation from high school and three years of experience in horticulture or irrigation with operation of wells, pumping stations, back-flow preventers, waste water treatment plants and maintenance. Three years of recent experience with management and operation of a multi-site irrigation central control systems.

**Licenses & Other Requirements:**

Valid California Class C driver's license;  
Possession of or the ability to, within 120 days of employment, possess and maintain a valid qualified Water Treatment Operator Grade II Certificate and a Water Distribution Operator Grade II Certificate;  
Must possess or be working toward an Operator in Training (OIT) Certificate;  
Must possess or be working toward a valid Waste Water Operator II Certificate;  
Within 150 days of employment, must possess and maintain a valid AWWA Back-flow Prevention Assembly Test Certificate;  
The ability to floor-lift 72 pounds and arm-lift 44 pounds.