



CLASSIFICATION NO. 848

Established: 1/13

FLSA: Non-Exempt

EEO: 7

SANITARY AND STORMWATER TECHNICIAN

CLASS CHARACTERISTICS

Under general supervision to assist with and to inspect, repair, operate and maintain storm drainage lines, catch basins, sewer lines, pump stations, remote package treatment facilities, stormwater systems and related equipment, machinery and instruments; to participate as a member of a work team overseeing the wastewater collection system; to assist in the planning, design and construction of the surface water management system and to do other work as required.

DISTINGUISHING CHARACTERISTICS

Water Environment Services manages and operates the County's utility service districts, including sewage facilities, collection systems, pump stations, treatment plants and surface water management.

The Sanitary and Stormwater Technician participates in and is responsible for the operation of the collection systems which transports wastewater from residences and commercial facilities to the treatment plants, as well as stormwater systems. Positions provide field and administrative support to ensure compliance with federal and state regulations regarding collection system management. This position also provides maintenance support in the development, implementation and maintenance of a water quality based system of surface water drainage and sanitary sewer collection. Incumbents also participate in work planning, training, problem solving, budgeting and personnel issues as part of a work team.

This classification is a broad classification ranging from entry level to journey level duties. Incumbents coming in at the entry level typically possess some work experience, education and training in the Wastewater field and have completed education or training in performing tasks such as cleaning, maintaining and repairing pipes and pumps. Progression through the salary range includes meeting defined criteria as further outlined in the Other Information section of this classification.

The Sanitary and Stormwater Technician differs from the Wastewater Mechanic which may perform electrical and other maintenance and repair work on pump stations, but generally does not work on sewer lines or storm drainage or in confined underground areas requiring specialized training and certification. It also differs from the Surface Water Technician which provides field and administrative assistance to ensure compliance with federally mandated programs and environmental regulations regarding surface water management and works with the public to resolve issues, but generally does not perform sanitary water operations or work in confined underground areas.

TYPICAL TASKS

Duties may include but are not limited to the following:

1. Participates in land surveys of existing and proposed drainage and sanitary sewer structures and water quality facilities; surface water system maintenance and repair activities; inspects and cleans storm drains, catch basins, sewer lines, sewer pumps, water quality facilities and related structures; tests for infiltration and ex-filtration; performs standard and emergency repairs to correct line stoppages and breaks.
2. Inspects, maintains and repairs sewer/stormwater lines and access holes; maintains stormwater detention ponds; examines sewer and stormwater infrastructure for defects, debris, condition of materials, as-built map verification, smoke and dye tests, infiltration and inflow; mechanically removes debris, protruding taps and blockages; adjust access holes to specifications; applies chemical grout or excavates and replaces damaged pipe; performs main line tap ins, utility locates and vector control; inspects and documents as-built on new construction.
3. Assists in the development and implementation of projects to improve water quality in the drainage system, such as the construction of water quality facilities and planting vegetation in wetlands; corrects cross connections; collects and analyzes data on existing surface water systems; monitors water quality to maintain compliance; reengineers surface water ponds, decommissions outdated or faulty drywells; uses laser levels and related engineering/construction equipment to install new storm pipes and catch basins; recruits and coordinates volunteers and/or community groups for water quality projects.
4. Compiles and updates construction standards and standard detail drawings of sanitary/stormwater pipes, ponds and control structures; verifies completion and accuracy of plat maps for new subdivisions, annexations, easements and assessment districts by completing site assessments/inspections; participates in the global position satellite mapping of existing storm water structures, pipes and ponds.
5. Reviews and assembles contract specifications and construction plans for sewer pump stations, stormwater ponds and decant facilities, and crew shop; provides input on sewer/storm water design; computes bid quantities and cost estimates; inspects storm drainage, sewer and water quality facilities during and after construction.
6. Responds to citizen questions and complaints on surface/waste water issues, services and construction projects; researches water quality and flooding problems; conducts site visits and coordinates response; conducts facility tours and public information meetings; answers technical questions and explains wastewater collections/storm water and processing system.
7. Serves as project or team leader on various assignments; plans, schedules, assigns and oversees work to other team members; monitors and coordinates the work of contracted

services; trains and leads the work of lower level technicians and new and temporary employees; provides group safety training; demonstrates safe working practices in the field.

8. Operates, maintains, inspects and repairs wastewater and stormwater equipment, machinery, and instruments; rebuilds pumps and associated equipment; investigates and corrects system failures and malfunctions; fabricates or repairs metal parts; test, monitors, calibrates and replaces electronic components; cleans wet wells and force mains; generates auxiliary power and performs emergency bypass pumping or hauling with tanker trucks; operates cctv equipment and specialized software to perform condition inspections of sewer and storm pipes.
9. Installs, calibrates and maintains flow monitoring and sampling equipment; collects, records and reports on data for billing, investigative and research purposes; collects and performs field tests on wastewater and storm water samples.
10. Operates, maintains, inspects and repairs remote package treatment facilities; collects and performs field tests on wastewater and stormwater samples; records data and prepares operating reports; records daily activities, analyzes and monitors data management system to assure accurate record and cost of daily work tasks.

REQUIRED KNOWLEDGE AND SKILLS

Working knowledge of: Basic principles and practices of personnel management, purchasing and contract administration; machinery and equipment used in the operation, maintenance and repair of wastewater collection and stormwater facilities, systems and components; federal, state, environmental, occupational and health safety practices related to surface/wastewater management; techniques of land surveying and GPS mapping materials; stormwater/wastewater and industrial pre-treatment sampling techniques; basic technical engineering practices used in the construction and inspection of wastewater/sanitary sewers and water quality facilities; math, algebra and geometry, trigonometry; basic hydrology; water sampling techniques; English grammar, spelling and punctuation; microcomputer applications in drafting wastewater/stormwater collection data and programmable logic controllers.

Skill to: Coordinate completion of projects within established budget and time guidelines; incorporate team participation in decision making; oversee a crew of technicians or maintenance personnel; prepare and maintain accurate records; communicate effectively, both orally and in writing; safely operate maintain and repair combination vacuum truck, television inspection equipment, hydro cleaner, track hoe, skid steerer and other heavy equipment as needed; confined space entry equipment, pipe saws, tappers, pumps, motors, generators, utility locators, air blowers, flow monitors, sampling equipment, survey equipment; survey instruments, electrical components, systems and telemetry systems used in storm/wastewater collection systems; diagnose and repair malfunctions in motors, pumps, generators, telemetry, control panel instruments, compressors, blowers and pump house structures; research and prepare complex legal descriptions; read and understand blueprints; read and interpret maps, utility line and construction plans; prepare and maintain accurate records; establish and maintain cooperative working relationships with customers, contractors, vendors, County employees and the public.

WORKING CONDITIONS

Duties require physical labor, including walking, reaching, squatting, kneeling, bending, balancing, climbing, shoveling, fine motor control, and ability to lift up to 50 pounds, carry, and push/pull up to 70 pounds. Duties also involve exposure to bacteria, viruses and toxins in wastewater, chemicals, exhaust fumes and dust, loud noises, and vibration. Some duties involve exposure to adverse weather conditions and hazardous locations, such as streets, live sewers, confined underground areas and on elevated platforms.

Incumbents may perform after hours emergency response on call-out basis.

MINIMUM QUALIFICATIONS

Minimum qualifications are used as a guide for establishing the minimum experience, education, licensure, and/or certifications required for employment in the classification. The following minimum qualifications are established for this classification. Additional minimum qualifications and special conditions may apply to a specific position within this classification and will be stated on the job announcement.

Experience: None required.

Licenses/Certifications:

The following licensure/certifications are required at the time of hire.

- Some positions may require a Backflow Preventer Certification.

PRE-EMPLOYMENT REQUIREMENTS

Driving is required for County business on a regular basis or to accomplish work. Incumbents must possess a valid driver's license, and possess and maintain an acceptable driving record throughout the course of employment.

Must pass a pre-employment drug test (DOT Regulations for CDL).

Employment is contingent upon passing a post-offer physical assessment. Accommodation requests will be reviewed on an individual basis in compliance with State and Federal legislation.

POST-EMPLOYMENT REQUIREMENTS

Progression through this classification's broad salary range includes meeting specific criteria:

Within six (6) months of hire, possession of valid Class B Commercial Driver's License (CDL) with a tank endorsement and no restrictions in order to drive manual transmission.

Within a twelve (12) months of hire, possession of the State of Oregon Wastewater Collection Certification Level 1; California State University – Operations and Maintenance of Waste Water Collections System 1 & 2; Competent Person Certification.

Advancement to mid range requires satisfactory job performance; proficiency with CMMS and all other commonly used office computer systems; State of Oregon Water Collections System 2 Certification DEQ; Starting an accredited surface water education program that issues CEUs.

Advancement to max range in the salary range requires satisfactory job performance; State of Oregon Wastewater Collection Certification Level 3 as well as four (4) Continuing Education Units (CEUs) from an accredited surface water education program (plant identification classes; watershed health, etc.) (ex: Portland State University/California State University).

Edited: 11/18