

*Code: 2419*

*Title: WASTEWATER CONVEYANCE SYSTEM MONITOR-SENIOR*

**SUMMARY:** Leads and participates in the installation, operation and maintenance of sewage flow, air phase and air quality monitoring equipment and inspects and documents the physical condition of components of sanitary sewage conveyance systems.

**DUTIES/RESPONSIBILITIES:** (Work assignments may vary depending on the department's needs and will be communicated to the applicant or incumbent by the supervisor.)

Leads and trains staff in the procedures and techniques required for metering the sanitary sewage flow and air phase and/or air quality in the conveyance systems;

Installs, operates and maintains the sewage flow, air phase monitoring and air quality equipment in the wastewater conveyance systems;

Installs, maintains and troubleshoots computerized monitoring devices, control and instrument loops, instruments and Supervisory Control and Data Acquisition (SCADA) systems and performs repairs;

Inspects, collects and documents data relative to quantity and quality of air, flow, type and condition of pipeline, obstructions, meter operation and other pertinent information;

Sets up and operates traffic control devices to facilitate the safe entry of manholes in order to install, operate, collect, adjust or service metering equipment;

Answers inquiries and provides information to the public regarding sanitary sewerage systems functions and conditions;

Participates in the selection of wastewater monitoring locations for reliable sample collection, flow metering and testing air quality;

Coordinates activities with field operations, industrial wastewater control and treatment plants to minimize/avoid service disruption in compliance with federal and state permit regulations;

Participates in performing special surveys to collect data required for determining storm water inflow, for setting rates and for use in planning and engineering;

Participates with the department in the development of improved or new techniques and procedures for measuring wastewater flow and/or air quality;

Maintains monitoring equipment, disassembles, cleans, reassembles, installs and tests flow sampler and/or air quality parameters, makes adjustments and minor repairs;

Maintains and operates assigned county equipment and vehicle;

Creates and maintains automated file systems for documenting collected data and producing reports;

Performs confined space entries in sewer manholes and other locations.

**KNOWLEDGE & SKILLS:**

Knowledge of:

- techniques of wastewater flow monitoring and air phase gas metering, testing air quality and field analysis using manual, mechanical and electronic metering equipment;
- safety procedures for handling/working with chemicals and toxic waste products;
- procedures for manhole/confined space entry into hazardous environments and associated traffic control;
- chemical reactions of waste materials;
- government mandated standards for conveyance system operation;
- hydraulics associated with wastewater conveyance systems;
- principles and practices of leading and training staff;
- business English, grammar and composition.

Skill in:

- using electro/mechanical equipment to collect sewage flow and air phase data and to test air quality;
- collecting and recording data, preparing and maintaining records;
- entering confined spaces for sample collection;
- performing mathematical and statistical computations associated with sewage flow, air phase metering and air quality;
- use of automated information systems to maintain data and produce documentation;
- interpreting engineering sketches, drawings, and plans;
- leading and training staff;
- effective communication;
- operation, repair, maintenance, installation and calibration of instrumentation and related components.

MINIMUM QUALIFICATIONS:

EITHER:

(1) Completion of three college level classes from an accredited college, university or trade school in physical or environmental science and two years of experience in environmental technology.

OR:

(2) Two years of experience in the maintenance and/or operation of sanitary sewage treatment/conveyance facilities and six months of experience as a lead which can be concurrent with the required experience.

OR:

(3) One year with Pima County as a Wastewater Conveyance System Monitor.

OTHER REQUIREMENTS:

Licenses and Certificates: A valid Class D Arizona Driver's License is required at time of appointment and some positions, within this classification, may require possession of a valid Arizona Commercial Drivers License (CDL) with appropriate endorsements, as identified by the appointing authority. Failure to obtain/maintain the required licensure shall be grounds for termination.

Special Notice Items: Some positions may carry the risk of exposure to infectious diseases, blood-borne pathogens, asbestos or wastewater products, therefore special medical screening prior to or during employment may be necessary to assure employee health and safety.

Physical/Sensory Requirements: Some positions may require any or all of the following: lifting and carrying up to seventy-five pounds or more; safely operating assigned vehicles and other powered equipment; working in extremes of heat, humidity, dust, cold; wearing required safety clothing and equipment; working with or in the presence of obnoxious odors; working with noxious or potentially hazardous chemicals, compounds or products; ascending and descending ladders and stairs to reach and work upon elevated or below-grade work platforms and job sites; differentiating between colors.

This classification specification is intended to indicate the basic nature of positions allocated to the classification and examples of typical duties that may be assigned. It does not imply that all positions within the classification perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.