

Environmental Systems Maintenance Technician

FLSA Status: Covered
Bargaining Unit: Portland City Laborers 483 (PCL)

General Summary

Positions in this broad class are responsible for investigating sanitary sewer and storm water collection systems; and locating, inspecting, and documenting findings regarding the condition, maintenance and repair needs.

Distinguishing Characteristics

The Environmental Systems Maintenance Technician class is distinguished from other classes by its focus on investigation of sewer and storm water problems, and sewer collection system inspection, requiring broad skills and knowledge of system structure, operation, materials, maintenance, diagnostics and repair.

Typical Duties/Examples of Work

1. Performs sewer system inspections, responds to sewage releases and flooding events by dye testing, operating inspection equipment as well as other locating equipment in order to document and provide information; makes audio/video recording of collection systems, documenting conditions and repair needs.
2. Coordinates and leads the work activities of an inspection crew; determines connections to sewers, or source problems; checks records of existing sewer system for connections; draws information on sewer system maps or creates new sewer system connection records.
3. Investigates to locate source of reported illegal materials entering in the sewer system; locates sources of system leaks; performs field investigations, including flooding, and plugged culverts or ditches related to storm water control.
4. Uses GPS equipment to document locations of assets in the sanitary and stormwater collection systems.
5. Trains other employees in proper methods and equipment used in cleaning and maintaining a sewer system and in the equipment and safety procedures used for inspection of sewer lines, both visually and electronically.
6. Performs mechanical and electrical repairs and maintenance of technical equipment; designs and fabricates special equipment needed.

- 7. Performs work in confined spaces, in and around hazardous and unknown atmospheres.
- 8. Responds to calls to work during emergencies.
- 9. Performs minor patching and repairs to sanitary and stormwater infrastructure.
- 10. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: sewer and storm water systems; maintenance and repair of pipe in a live sewer; confined space entry; work zone traffic controls; shoring regulations; State, Federal, DEQ, SSO and CSO regulations; CCTV inspections and procedures; sewer system construction, structure, and various materials used.

Ability to: learn and use safe working practices; provide leadership; train others; use, maintain and repair technical equipment; stay current with changing rules, regulations and equipment; work effectively with co-workers in a diverse workforce, and respond appropriately to question/concerns from other employees and the public.

Skill in: recognizing and describing defects in collection systems; reading instructions and interpreting quarter-section maps utilizing GIS, as-built maps; establishing and maintaining effective working relationships with other employees, contractors, and property owners; diagnosing and resolving equipment or facility problems; making needed repairs; use of computers; completing reports; performing measurements and arithmetic computations including multiplication, division, fractions, decimals and conversions.

Special Requirements

Valid Class “A” Commercial Driver’s License; some positions may require additional endorsements, certifications or licenses; confined space training.

Classification History:

Adopted: 2-03-99:

Class created as a result of DCTU Classification and Compensation Study 1998-99. This class is composed of the following classes:

1229 Sr. Sewer Worker Adopted: 06-19-79

June 2009 - Change Job Class number from 1229 to 30000094, due to system change.

Feb 2017 – Updated class spec to reflect changes in technology.

7-1-17 Union changed from DCTU to PCL

Working Conditions

Work in this class is typically performed in a field environment. Incumbent is typically required to negotiate rough terrain; to lift up to 50 pounds; to work outdoors in all weather conditions; to be called back to work during emergencies; to work in and around traffic, confined spaces and in hazardous and unknown atmospheres; to wear protective gear.