

As a Wastewater Engineer you would perform these types of duties:

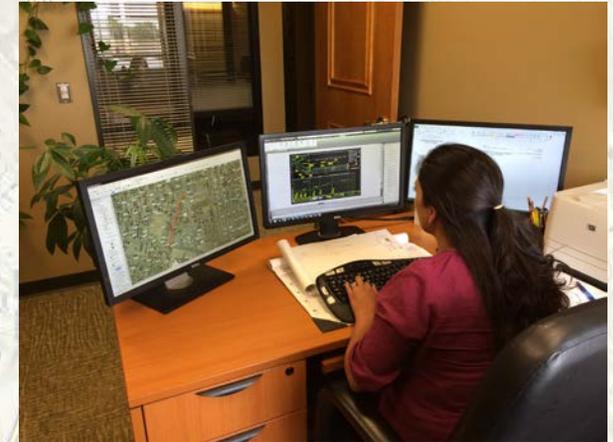
- Monitor existing sewer flows and evaluate the projected impact upon the system from proposed development
- Design of sanitary sewer systems to include rehabilitation of existing collection systems, wastewater lift stations and processes at the treatment plant
- Update and maintain maps of the sanitary sewer service area, and the collection system and its structures through data collection such as Global Positioning System (GPS) mapping
- Solicit and evaluate proposals from outside engineers, architects and contractors
- Develop plans, specifications and manage construction projects for both the collections system and the treatment plant
- Identify physical flaws in new and existing sanitary sewers by reviewing video inspection records, determining the severity of such flaws, and prioritizing problems for rehabilitation
- Inspect sanitary sewers, manholes, tap connections, pump stations and any related work to assure that such work complies with approved plans, specifications and City Ordinances
- Review new building and subdivision plans for compliance to Wastewater Standards

City of Pueblo Wastewater Engineers are required to have a bachelor's degree in Civil or Mechanical Engineering and maintain a Class D Wastewater and Class I Collections certificates issued by Operator Certification Program Office (OCPO). These three requirements ensure the engineer has an understanding of the Wastewater Department.

A Professional Engineering License is required for management positions.

Contact OCPO for more information regarding the Class D Wastewater and Class I Collections certificates by telephone, fax, or Internet:

2170 S. Parker Road #290  
Denver, CO 80231  
Phone #: 303.394.8994  
Fax #: 303.394.3450  
Website: [www.ocpoweb.com](http://www.ocpoweb.com)



City governments usually provide wastewater collection and treatment services. States and the federal government do not provide wastewater services. There are some private companies that operate wastewater treatment plants, but the plants themselves are owned by municipalities. Working as an engineering for the City of Pueblo Wastewater Department means a steady job and good benefits.

## **WHY WOULD ANYONE WANT TO WORK WITH WASTEWATER?**

**First, wastewater collection and treatment is an essential service.**

Many human diseases, including cholera, typhoid fever, hepatitis, and poliomyelitis, are discharged from infected individuals in human waste. Without wastewater collection to keep these infectious agents away from healthy people and without treatment to kill the microorganisms that cause the diseases, these illnesses can spread quickly through the human population, causing severe illness or death. Wastewater collection and treatment is an essential public health service first and foremost.

**Second, wastewater collection and treatment protects the environment.**

Human beings and animals produce bodily wastes. Many business activities also produce wastes containing chemicals in much higher concentrations that would occur naturally. Wastewater collection and treatment remove these wastes and chemicals before they overwhelm natural systems, killing fish and other wildlife and reducing our quality of life.

**Third, wastewater workers are the only line of defense.**

Wastewater engineers ensure that the collection system and treatment plant comply with the State Regulations and the total system stays in proper working order. They are involved with new development and ensure system and plant capacity is adequate. Without wastewater workers, human waste would endanger lives and ruin the environment.

It is a job you can be proud of. And it's a career that will never go away.

## **WANT MORE INFORMATION ABOUT A CAREER IN WASTEWATER COLLECTION AND TREATMENT?**

If you would like more information about a career in the field of wastewater collection and treatment, the following resources will provide a starting point.

### **City of Pueblo Wastewater Department**

Nancy Keller ..... 553-2894  
Sonia Mondragon..... 553-2890

### **On The Web**

Water Environment Federation  
<http://www.wef.org>

City of Pueblo  
<http://www.pueblo.us>  
(select City Departments/Contact Information, then select Wastewater at the bottom of the left-hand column)

Colorado Operator Certification Program Office  
<http://www.ocpoweb.com>

# *WASTEWATER ENGINEERING*

## Career Opportunities



**PUEBLO WASTEWATER**  
Protecting Our City and Planet

*City of Pueblo*

