

# **Public Utilities**

# Citizens Academy

Blake Jordan

## **What Are City Utilities?**

### **Drinking Water**

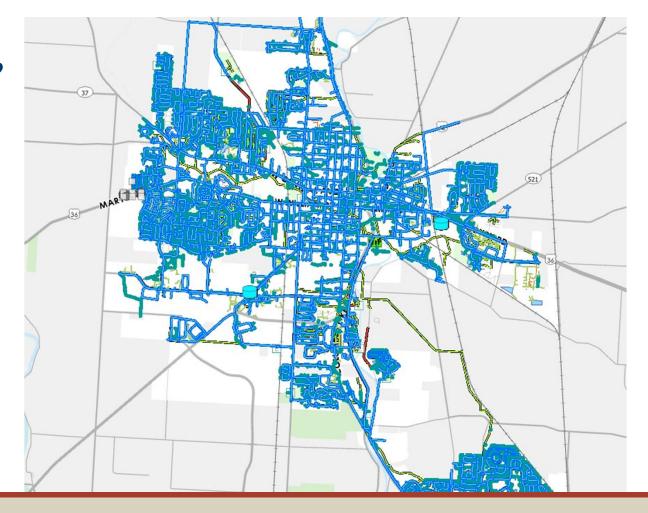
- Water Treatment
- Water Distribution

#### **Wastewater**

- Wastewater Treatment
- Wastewater Collections

### **Stormwater**

- Storm sewer system
- Sustainability/MS4



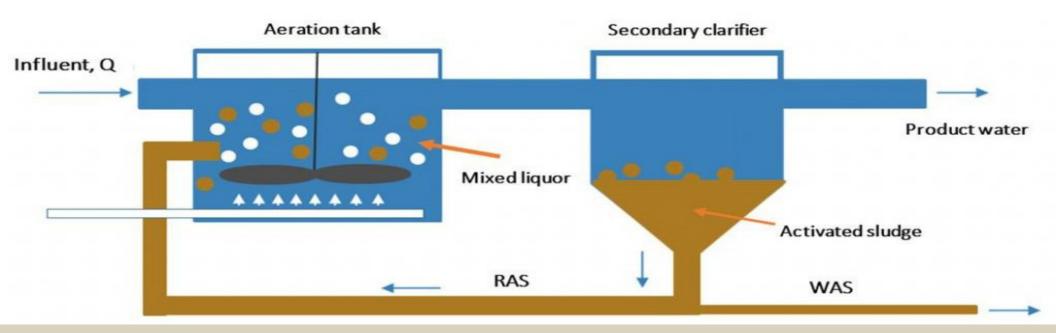


Not City Utilities: Phone, Cable, Electric, Gas

## **Wastewater Treatment - Activated Sludge**

### **WWTP Flows**

Avg. - 4.5MGD Rated – 10MGD Continuous/20MGD Daily/30MGD Hourly





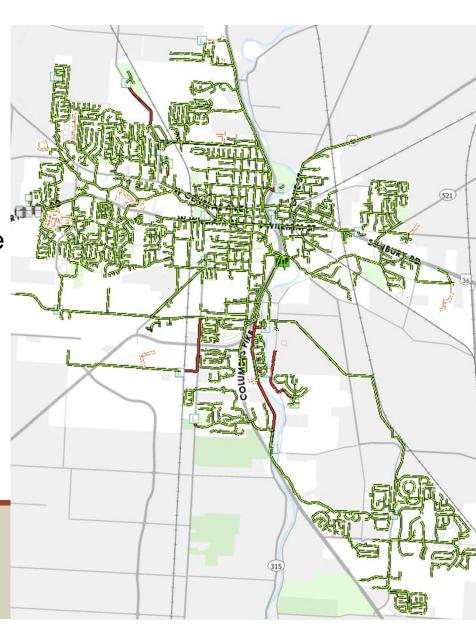


## **Wastewater Collections**

Sewer systems operate via gravity flow 182 miles of sewer

Lift stations used when sewer depth not possible

Sewer line inspection done with a mobile cctv camera inspection van





## **Stormwater Utility**

Delaware is a MS4 community

Municipal Separate Storm Sewer System

Educational Outreach
River Cleanup Activities
Dry Weather Screening
Tree Plantings
Pet Waste Collection Stations











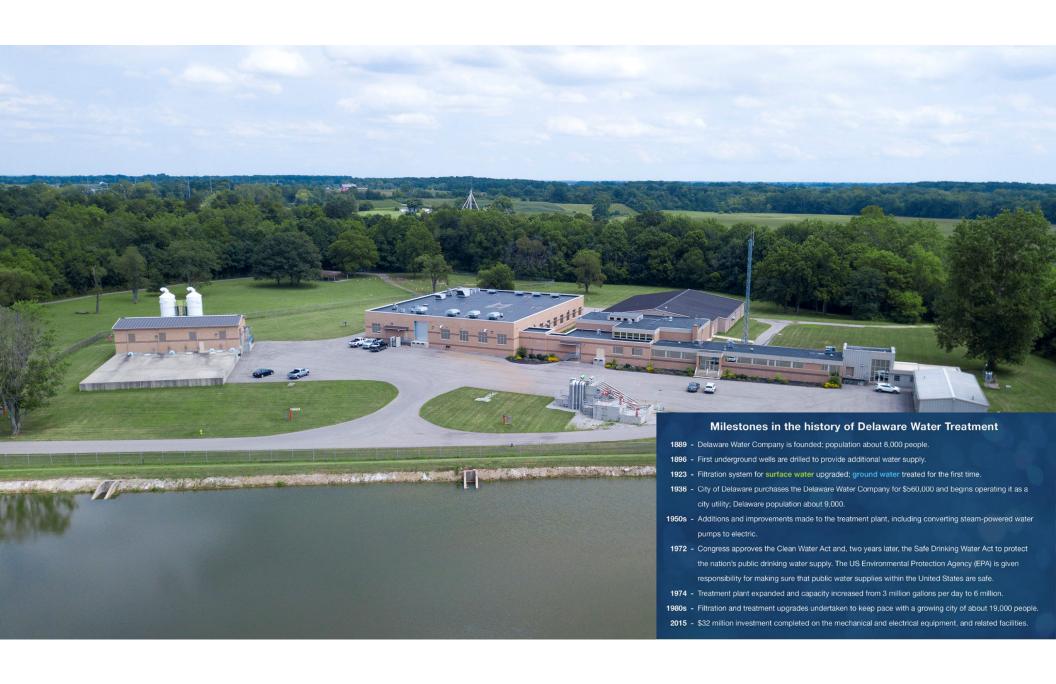
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## **Water Distribution**

### Water leaves treatment plant via pump into the system

The pumping rate is in response to system usage, which is measured by the drop in water level in the City's three water towers.

### Water pressure

Pressure is a function of gravity:

 $1,100 - \text{site elevation } \times 0.433 = PSI$ 

225 miles of waterline









