

Wastewater treatment involves the following:

## 3.1 Generation

Wastewater originates from domestic, industrial, commercial or agricultural activities. The characteristics of wastewater vary depending on the source. Types of wastewater include:

- Domestic Sewage: wastewater derived principally from dwellings, business buildings, institutions, and
- Industrial Sewage: liquid waste from industrial processes

Typical per person generation of wastewater in the USA is about 70-100 gallons per day

## 3.2 Collections

- Wastewater is collected from its point of origin home, businesses, industries etc. and conveyed via sewer lines to a centralized wastewater treatment facility.
- When the rainwater drainage is made part of the sewer system, the system is termed as Combined System.
- The system where the sewage is conveyed separately from the stormwater flows is termed as Separated System.
- In the Separated System, the Sanitary Sewers convey the wastewater and the Stormwater Sewer conveys the storm water flows.
- For the Combined System, rainstorms pose the threat of overwhelming the sewers and the treatment plant