**Introduction**

## **What is EPANET:**

## EPANET is a computer program that performs extended period simulation of hydraulic and water quality behaviour within pressurized pipe networks. A network consists of pipes, nodes (pipe junctions), pumps, valves and storage tanks or reservoirs. EPANET tracks the flow of water in each pipe, the pressure at each node, the height of water in each tank, and the concentration of a chemical species throughout the network during a simulation period comprised of multiple time steps. In addition to chemical species, water age and source tracing can also be simulated.

## **Steps in Using EPANET:**

One typically carries out the following steps when using EPANET to model a water distribution system:

1. Draw a network representation of your distribution system or import a basic description of the network placed in a text file.
2. Edit the properties of the objects that make up the system.
3. Describe how the system is operated.
4. Select a set of analysis options.
5. Run a hydraulic/water quality analysis
6. View the results of the analysis