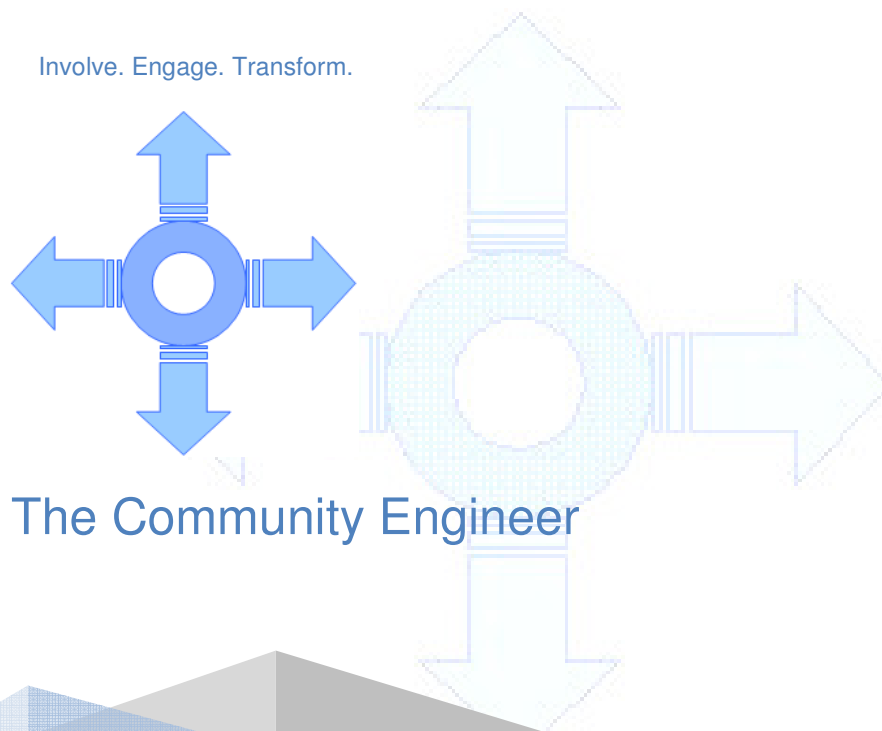


Epanet 2.0

Training Brief



2011

1. Introduction

Presentation - Introduction to water distribution system, hydraulics of pressurised systems and modelling.

Followed by Workshops - Hands on experience in modelling of water distribution systems

2. Workshop 1

2.1. Setup a Project

Learn How to setup a Project in EPANET. This will include the following sections.

2.1.1 Setting project defaults

2.1.2 Setting preferences

2.2. Building Model

Learn How to build a water supply distribution model from an example project. This section will include adding nodes, junctions and tanks.

2.2.1 Adding objects

2.2.2 Editing an object

2.2.3 Inserting Label

2.2.4 Map Options

2.2.5 Working with objects

2.3. Analysing Network Model

This section will teach how to analyse a network once it is modelled.

2.3.1 Analysis options

2.3.2 Run Analysis

2.3.3 Viewing Tabular Results

2.4. Inferences

Discuss on the results generated, how to infer them and utilise the results for planning , design and optimisation.

2.4.1 Pressure

2.4.2 Headloss

2.4.3 Velocity

2.5. Options

Carry out an exercise to develop an economical and efficient option.

3. Workshop 2

This workshop will introduce to demand application and extended period analysis.

3.1. Demand Pattern

Calculate and apply demand and demand patterns.

3.1.1 Creating Demand Pattern

3.1.2 Applying Demand Pattern

3.2. Creating an Extended Period Analysis

Learn how to run an extended period analysis of your model for any duration.

3.3. Results

3.4. Inference

4. Workshop 3

Workshop 3 will focus on adding additional components like a reservoir and pump in to the model, generating graphs and export/import of networks.

4.1. Adding a Reservoir

4.2. Adding a Pump

4.3. Generating a graph

4.3.1 Customising Graph

4.4. Using the Find and Query Option

4.5. Exporting Data

4.5.1 Map Export

4.5.2 Export Scenario

4.5.3 Export Network

4.6. Import Data

5. Workshop 4

in this workshop, learn how to add valves and apply simple controls to optimise various component operations.

5.1. Valves

5.2. Adding a Valve

5.3. Simple Controls

5.3.1 Simple Control Examples

5.3.2 Applying Simple Control

6. Discussion

Discussion on doubts and queries.

6.1. Frequently Asked Questions

Discuss few common modelling problems and how to solve this in EPANET.

Trainees will be provided with the EPANET 2.0 software, Handouts and EPANET Manual.

Future support is provided through e-mail/forum.

For technical resources and details visit,

<http://thecommunityengineer.weebly.com/>