

[TITLE]
EPANET Example Network 1
A simple example of modeling chlorine decay. Both bulk and wall reactions are included.

[JUNCTIONS]
;ID Elev Demand Pattern
10 710 0 ;
11 710 150 ;
12 700 150 ;
13 695 100 ;
21 700 150 ;
22 695 200 ;
23 690 150 ;
31 700 100 ;
32 710 100 ;

[RESERVOIRS]
;ID Head Pattern
9 800 ;

[TANKS]
;ID Elevation InitLevel MinLevel MaxLevel Diameter MinVol VolCurve
2 850 120 100 150 50.5 0 ;

[PIPES]
;ID Node1 Node2 Length Diameter Roughness MinorLoss Status
10 10 11 10530 18 100 0 Open ;
11 11 12 5280 14 100 0 Open ;
12 12 13 5280 10 100 0 Open ;
21 21 22 5280 10 100 0 Open ;
22 22 23 5280 12 100 0 Open ;
31 31 32 5280 6 100 0 Open ;
110 2 12 200 18 100 0 Open ;
111 11 21 5280 10 100 0 Open ;
112 12 22 5280 12 100 0 Open ;
113 13 23 5280 8 100 0 Open ;
121 21 31 5280 8 100 0 Open ;
122 22 32 5280 6 100 0 Open ;

[PUMPS]
;ID Node1 Node2 Parameters
9 9 10 HEAD 1 ;

[VALVES]
;ID Node1 Node2 Diameter Type Setting MinorLoss

[TAGS]

[DEMANDS]
;Junction Demand Pattern Category

[STATUS]
;ID Status/Setting

[PATTERNS]
;ID Multipliers
;Demand Pattern
1 1.0 1.2 1.4 1.6 1.4 1.2
1 1.0 0.8 0.6 0.4 0.6 0.8

[CURVES]
;ID X-Value Y-Value
;PUMP: Pump Curve for Pump 9
1 1500 250

[CONTROLS]
LINK 9 OPEN IF NODE 2 BELOW 110
LINK 9 CLOSED IF NODE 2 ABOVE 140

[RULES]

[ENERGY]
Global Efficiency 75
Global Price 0.0
Demand Charge 0.0

[EMITTERS]
;Junction Coefficient

[QUALITY]
;Node InitQual
10 0.5
11 0.5
12 0.5
13 0.5
21 0.5
22 0.5
23 0.5
31 0.5
32 0.5
9 1.0
2 1.0

[SOURCES]
;Node Type Quality Pattern

[REACTIONS]
;Type Pipe/Tank Coefficient

[REACTIONS]
Order Bulk 1
Order Tank 1
Order Wall 1
Global Bulk -.5
Global Wall -1
Limiting Potential 0.0
Roughness Correlation 0.0

[MIXING]
;Tank Model

[TIMES]
Duration 24:00
Hydraulic Timestep 1:00
Quality Timestep 0:05
Pattern Timestep 2:00
Pattern Start 0:00
Report Timestep 1:00
Report Start 0:00
Start ClockTime 12 am
Statistic None

[REPORT]
Status Yes
Summary No
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[OPTIONS]
Units GPM
Headloss H-W

Specific Gravity 1.0
Viscosity 1.0
Trials 40
Accuracy 0.001
CHECKFREQ 2
MAXCHECK 10
DAMPLIMIT 0
Unbalanced Continue 10
Pattern 1
Demand Multiplier 1.0
Emitter Exponent 0.5
Quality Chlorine mg/L
Diffusivity 1.0
Tolerance 0.01

[COORDINATES]
;Node X-Coord Y-Coord
10 20.00 70.00
11 30.00 70.00
12 50.00 70.00
13 70.00 70.00
21 30.00 40.00
22 50.00 40.00
23 70.00 40.00
31 30.00 10.00
32 50.00 10.00
9 10.00 70.00
2 50.00 90.00

[VERTICES]
;Link X-Coord Y-Coord

[LABELS]
;X-Coord Y-Coord Label & Anchor Node
6.99 73.63 "Source"
13.48 68.13 "Pump"
43.85 91.21 "Tank"

[BACKDROP]
DIMENSIONS 7.00 6.00 73.00 94.00
UNITS None
FILE
OFFSET 0.00 0.00

[END]