

Hydraulic Model Data Summary

Brief Description of Project: _____

Hydraulic Model Input Summary:

Entire distribution system is modeled
Part of the distribution system is modeled
Node map is provided

If only part of the distribution is modeled, what is the basis for model development:

Hydrant flow test: _____ gpm @ _____ psi residual pressure

Gravity from storage tank: water surface elevation _____ feet

Other: _____

Residential Water Demand: $Q =$ _____ gpd per household

Based Upon Census data x _____ gpcd

Historical Usage Data

Other: _____

Commercial and Industrial Demand: _____ gpd, or _____ gpm

Total Demand: $Q_{avg} =$ _____ gpm

Maximum Day Demand: $Q_{avg} \times$ _____ peak factor = _____ gpm

Based Upon: 2.0 peaking factor

Other: _____

Peak Hour Demand: $Q_{avg} \times$ _____ peak factor = _____ gpm

Based Upon: 4.0 peaking factor

Other: _____

Is fire protection included in the project: Yes No

If Yes, Design fire flow and duration: _____ gpm for _____ hours

Critical Node Output:

Node Identification: _____
Flow: _____

Node Elevation: _____
Pressure: _____

Effective Storage Evaluation:

Available effective storage is determined based on the minimum storage tank water surface elevation necessary to maintain a minimum pressure of 20 psi at all locations in the distribution system during maximum day flow.

- Reports submitted:
- Junction Report for Max Day
 - Pipe Report for Max Day
 - Tank Report
 - Pump Report, as needed

Critical Node Output:

Node Identification: _____
Flow: _____

Node Elevation: _____
Pressure: _____

Storage Tank Identification: _____

(If more than one tank is included in the model, provide additional tank information on attached sheets.)

Minimum elevation necessary under maximum day domestic flow: _____ feet

Overflow elevation: _____ feet

Tank bottom elevation: _____ feet

Effective storage volume: _____ gallons