Water System Capacity Calculation Scenario 3 — Papa Bubba Cafe

PWS Type: Community, NTNC, or TNC? _TNC_

1. **Indoor Water Use**
   Number of Residential Connections = 0

   Number of other connections = a total of 240 seats (Table 510-2 under Restaurant a.)
   => Peak day demand = __35__ gpd per seat
   => Total peak day demand = __9400__ gallons per day = __10.5__ equivalent residential connections (ERCs)
      
      \[\text{35 gpd per seat} \times \text{240 seats} = 8,400 \text{ gpd}\]
      
      \[\text{8,400 gpd} / \text{800 gpd per ERC} = 10.5 \text{ ERCs}\]

2. **Outdoor Water Use**
   Located in Utah County near Payson => Map Zone _4_
   Total irrigated acreage = 1 acre

3. **Fire Flow Requirements**
   Assuming fire flow = 1,000 gpm & duration = 2 hours (Calc1)
   Local fire authority name __________________    Contact Info __________________
   (What if fire suppression flow is not required?) (Calc2)

4. **Existing source capacity = 20 gpm**

5. **Existing storage capacity = __5,000__ gallons** (assuming a 10,000-gallon hydropneumatic tank with has 50% bladder capacity)
   
   \[\text{10,000 gallons} \times \text{50\%} = 5,000 \text{ gallons}\]