

## 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)

35 gpd per seat x 240 seats = 8,400 gpd

8,400 gpd / 800 gpd per ERC => 10.5 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 hypopneumatic tank with has 50% bladder capacity)

10,000 gallons x 50% = 5,000 gallons