

## Water System Capacity Calculation Scenario 2 – Copycat Company

PWS Type: Community, NTNC, or TNC? NTNC

### 1. Indoor Water Use

Number of residential connections = 0

Number of other connections = 1

(1) Monthly meter reading data show that the peak month water usage is 480,000 gallons in July.

=> Peak day demand = 16,000 gallons per day = 20 equivalent residential connections (ERCs)

$480,000 \text{ gallons} / 30 \text{ days} = 16,000 \text{ gallons per day}$

$16,000 \text{ gpd} / 800 \text{ gpd per ERC} \Rightarrow 20 \text{ ERCs}$

(2) Daily meter reading data show that the peak day water usage is 16,000 gallons on July 15. => Peak day demand = 16,000 gallons per day = 20 equivalent residential connections (ERCs)

$16,000 \text{ gpd} / 800 \text{ gpd per ERC} \Rightarrow 20 \text{ ERCs}$

### 2. Outdoor Water Use

Located in Summit County near Kamas => Map Zone 2

Total irrigated acreage = 5 acres

### 3. Fire Flow Requirements

Required fire flow = 3,000 gpm & duration = 2 hours (Calc1)

Local fire authority name \_\_\_\_\_ Contact Info \_\_\_\_\_

(What if this building has a fire sprinkler system & only needs 500 gpm for 1 hour for fire suppression?) (Calc2)

**4. Existing source capacity = 25 gpm**

**5. Existing storage capacity = 200,000 gallons**