

## **Bulk Connection Equivalency**

### How to add in Bulk Connections into Step 1 of the Affordability Criteria

If your utility system has (primarily) residential bulk connections, you may calculate the equivalent number of residential connections ( $N_{\text{bulk equivalent residential connections}}$ ) by this bulk connection using one of the methods below. Then add the number of equivalent residential connections to the number of residential connections ( $R_{\text{Residential Connections}}$ ) the utility has on record. Use this summed number as the number of residential connections in Step 1 of the Affordability Criteria:

$$N_{\text{Step 1 Residential Connections}} = N_{\text{Residential Connections}} + N_{\text{bulk equivalent residential connections}}$$

#### **(1) Know the number of residential connections served**

If you know the number of residential connections served by the bulk connection, calculate the equivalent number of 5,000 gallon residential connections with the following equation:

$$\text{bulk equiv. residential connections} = \left( \frac{\text{Rates}_{5,000 \text{ gallon Bulk}}}{\text{Rates}_{5,000 \text{ gallon Res}}} \right) \left( \text{Number of residential connections served by bulk} \right)$$

where:

$\text{Rates}_{5,000 \text{ gallon Bulk}}$  = single utility bulk rates for 5,000 gallons

$\text{Rates}_{5,000 \text{ gallon Res}}$  = single utility rates for the typical 5,000-gallon residential connection

#### **(2) Do not know the number of residential connections served**

If you do not know the number of residential connections served by the bulk connection, then calculate the equivalent number of 5,000 gallon residential connections with the following equation:

$$\text{bulk equiv. residential connections} = \left( \frac{\text{Rates}_{5,000 \text{ gallon Bulk}}}{\text{Rates}_{5,000 \text{ gallon Res}}} \right) \left( \frac{\text{Average Bulk Flow (month)}}{5,000} \right)$$

where:

$\text{Rates}_{5,000 \text{ gallon Bulk}}$  = single utility bulk rates for 5,000 gallons

$\text{Rates}_{5,000 \text{ gallon Res}}$  = single utility rates for the typical 5,000 gallon residential connection

Average Bulk Flow (monthly) = Average monthly Bulk volume of water or sewer in gallons