



City Utilities
Design Standards
Manual

Exhibit W5-5
Minor Losses Worksheet 1

Created: January 1, 2002

Revised: June 10, 2014

Complete the following table to determine if minor losses must be included in overall hydraulic calculations.

| <u>Length of Proposed Project</u> (sorted by diameter) | <u>Diameter (inches)</u> | <u>Diameter Length (DL)</u> |
|---|--------------------------|-----------------------------|
|---|--------------------------|-----------------------------|

Example: 700 LF of 6" diameter pipe

700

$$x \frac{6}{12} =$$

350

$$x \frac{\square}{12} =$$

$$x \frac{\square}{12} =$$

$$x \frac{\square}{12} =$$

$$x \frac{\square}{12} =$$

$$x \frac{\square}{12} =$$

$$x \frac{\square}{12} =$$

TOTAL = feet*

* If DL total is equal to or less than 1,500 feet, then minor losses must be considered in overall hydraulic calculations. See Exhibit W5-7, Minor Losses Worksheet 2. If DL total is greater than 1,500, then minor losses may be omitted in overall hydraulic calculations.