

**FAC 8421      Water Distribution Line, Potable**

RUC:                \$22.47 LF

Source:            Marshall & Swift 66/1 adjusted for area and inflation using Marshall & Swift  
Section 99; projected to FY-09 using Green Book Table 5-6 MCON  
In V12, Tri-Service and USACE PAX Newsletter values were updated while all  
other values were inflated only.

Calculation follows:

SUC:                \$1.00 LF

Source:            Inflated from V10 using ENR-based index to FY-08; projected to FY-09 using  
Green Book Table 5-6 (O&M less DHP)  
Original source: 19967 American Water Works Association (WaterStats).  
In V12, values were inflated only.

Calculation follows:

|      |                         |            |              |    |      |             |      |       |
|------|-------------------------|------------|--------------|----|------|-------------|------|-------|
| 8421 | Water Distribution Line |            | Average Cost |    |      | Adjustments |      |       |
|      | 66/1                    | 6" plastic | Lo           | Hi | Ave  | Current     | DC   |       |
|      | Dec 07                  |            | 0            |    | 22.6 |             |      |       |
|      |                         |            |              |    |      | 1.03        | 1.03 | 23.98 |

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- **American Water Works Association.** Using "WaterStats", 1996, the most recent version available, the average distribution line length and average unit cost were determined for 530 (non-zero/non-null data) reporting utilities.
- To obtain the maintenance cost, the "Total O&M Expense" less "Power and Electric" and less "Chemicals" was used. Power, electric and chemical expenses were subtracted from the total as these represent operating expenses. The calculation to obtain an overall rate follows.
- Recommendation: Use the rate of \$0.76/LF (1996) as representative of private sector costs.

| <b>AWWA WaterStats (1996 Data)</b>          |                        |
|---------------------------------------------|------------------------|
| <b>Total Distribution Line In-Place</b>     | <b>370,490 MI</b>      |
| <b>Average Line In-Place (819 entities)</b> | <b>452.4 MI</b>        |
| <b>Total O&amp;M Expense Reported</b>       | <b>\$1,049,055,446</b> |
| <b>Less Power &amp; Chemicals</b>           | <b>\$957,561,670</b>   |
| <b>Average (530 non-zero/non-nulls)</b>     | <b>\$1,806,720</b>     |
| <b>Average \$/MI</b>                        | <b>3993.63</b>         |
| <b>Average \$/LF</b>                        | <b>0.76</b>            |