



STAFF REPORT

AGENDA NO: 8g

MEETING DATE: August 19, 2019

To: Honorable Mayor and City Council

Date: August 19, 2019

From: Syed Murtuza, Director of Public Works – (650) 558-7230

Subject: Adoption of a Resolution Approving the Procurement of Water Meters and Automatic Meter Read (AMR) Radio Devices

RECOMMENDATION

Staff recommends that the City Council adopt the attached resolution approving the procurement of new water meters and associated Automated Meter Reading (AMR) devices for the Public Works Department's routine meter upgrade and maintenance program, in a not to exceed amount of \$300,000 annually for the next three years.

BACKGROUND

The City of Burlingame's Public Works Department's Water Division operates and maintains approximately 10,000 water connections. These water meter connections range from 3/4" to 10" and serve a large number of residential customers, with a broad cross-section of institutional/offices, commercial, and industrial businesses.

In 2006, the Public Works Department went through a competitive selection process for procuring water meters and associated AMR devices and standardized the City's metering system. The City selected Golden State Flow Measurement, Inc. (GSFM), an authorized local distributor for the Sensus Metering Systems. In addition to maintaining consistency in operations and maintenance of the meters, Sensus Metering Systems was selected based on the following key factors:

- High approval rating by the American Water Works Association (AWWA);
- Provides a longer life expectancy and warranty on both electronics and battery of the AMR system;
- Longer service life for various sizes of water meters; and
- Low cost of initial installation and maintenance over the life expectancy of the components.

DISCUSSION

Over the last 13 years, the City has gone through a replacement program to upgrade all small size water meters (sizes ranging from 3/4" to 1 1/2"). The meter replacement program was based on the American Water Works Association (AWWA) recommendations, which call for replacement

of mechanical water meters every 10 to 20 years, depending on size, use, water quality, and other factors as listed below.

- **3 years** – test and/or replace meters 3 inch or larger
- **10 years** – replace or rebuild all 1 ½ & 2 inch meters
- **20 years** – replace all ¾ to 1 inch meters

Since the inception of the Water Meter Replacement Program in 2006, approximately 9,052 old, inefficient, and aging residential water meters have been replaced with new and efficient meters. The meter consumption data collected by the AMR system shows that the new system has significantly increased efficiency and the City's ability to accurately capture and track water consumption and prevent losses.

The City is now embarking on a program to upgrade the large water meters, sizes 2" and larger, over the next three years. Staff has negotiated a new set of pricing with GSFM for the purchase of the larger, various-sized water meters and associated AMR devices as reflected in the attached cost proposal.

FISCAL IMPACT

The City Council has approved funds in the FY2019-20 Water Capital Improvements Program and Operations Budget to cover the costs for the procurement of the water meters. Funds will be budgeted accordingly in future budgets to cover the cost of future years' procurement.

Exhibits:

- Resolution
- Cost Proposal from GSFM