

**Metropolitan Domestic Water Improvement District
Board of Directors Meeting**

August 13, 2018

**Approval of the Professional Hydrogeological Services
for Metro Main Well Siting Study**

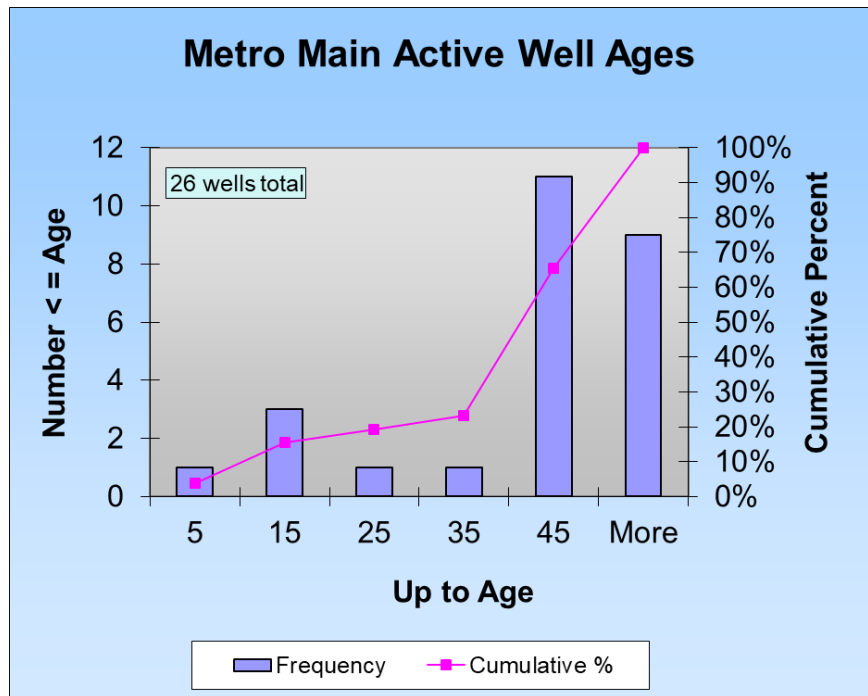
Synopsis

The Board of Directors is requested to authorize Clear Creek Associates, LLC (Clear Creek) to perform professional hydrogeological services for the Metro Main Well Siting Study under the Professional Services Agreement for Miscellaneous Water Resources Consulting Services.

Background

The expected life span of a supply well in the western United States is approximately 45 years. The average age of Metro Main's active wells is 40 years, and a third of the wells are greater than 45 years old. Only 5 of the 26 currently active production wells have been drilled since the District was formed.

Typically as a well ages, casing integrity and productivity declines. To date, much of the lost productivity has been offset by declining demand trends. However, condition assessments of these assets reveal corrosion and thinning of the well casings. As well assets reach the end of their life cycle, new and replacement wells will need to be drilled.



Issues

To be prepared for upcoming new and replacement well drilling, it is desirable and prudent to discern locations within Metro Main that are more (and less) suitable for municipal production. Preferred locations for well drilling are determined through a well siting study that considers the

hydrogeology of the service area and existing infrastructure. Factors such as depth to groundwater, aquifer thickness, aquifer productivity, water quality concerns, distance to aquifer boundaries, proximity to both District-owned and non-District wells, and distance to existing mains are weighted, ranked, and scored. Scores are then summed over geographic areas to determine which areas are more favorable over other areas.

The Fiscal Year 2019 Budget contains \$65,000 for “Hydrogeologic Study Metro Main” under Miscellaneous Consulting Services for this project. On June 11, 2018, the Board of Directors extended the Miscellaneous Water Resources Consulting Services contract with Clear Creek through June 30, 2019.

Staff Recommendation

Staff recommends the Board of Directors approve using Clear Creek Associates, under the Professional Services Agreement for Miscellaneous Water Resources Consulting Services, to perform the Metro Main Well Siting Study for the not-to-exceed amount of \$65,000.

Suggested Motion

I move that the Board of Directors approve using Clear Creek Associates, under the Professional Services Agreement for Miscellaneous Water Resources Consulting Services, to perform the Metro Main Well Siting Study for the not-to-exceed amount of \$65,000.

Respectfully submitted,

Wally Wilson
Water Resources Manager

I concur with the above recommendation.

Respectfully submitted,

Joseph Olsen, P.E.
General Manager