

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

**May 10, 2021**

**Approval and Award for Water Treatment Media Regeneration  
Annual Quotes for the District's Arsenic Treatment Media**

**Synopsis**

The Board is being requested to approve the Water Treatment Media Regeneration annual quotes for the regeneration of the District's Arsenic treatment media and award the regeneration service to Purolite.

**Background**

The District operates and maintains four Arsenic treatment systems with all of them using the LayneRT regenerable media. The LayneRT media is an Iron Oxide adsorption media. As the water flows through the media the arsenic ions, along with other competing ions such as silica, phosphate, and vanadium, stick to the media. Regeneration is scheduled when there is no longer any room for additional ions to attach to the media. The regeneration process chemically strips the Arsenic and other ions from the media. The media is then processed cleaned and certified back to National Sanitation Foundation (NSF) 61 standards for drinking water and can be reinstalled in the treatment system. All drinking water components are required to meet the NSF 61 standard. The facility performing the regeneration process has to have the Water Quality Gold Seal Certificate for the product being regenerated to meet NSF 61.

**Issues**

District staff sent out requests for sealed bids for the annual quotes. Requests were sent to Purolite as the only known vendor with the Gold Seal Certification and who has the capability to perform this service for the LayneRT media. An advertisement was placed in the Daily Territorial on April 6, 2021 and ran for four consecutive days. Due to COVID-19, all bids were requested to be sent by email with Water Treatment Media Quote in the subject line. Electronic bids were due by 2:00 p.m. on April 27, 2021. Emails were not opened until after 2:00 on the bid opening date. Staff set up a GoToMeeting session for the bid opening allowing remote attendance.

Purolite was the only respondent to the bid request and can meet the requirements of NSF 61 for the regenerated media. Purolite provided regeneration costs for varying quantities of media. The District has five vessels that contain 80 cubic feet of media. Using 80 cubic feet of media as an

example, the cost of regeneration, assuming the high range shipping costs, would be \$270 per cubic foot or \$21,600 per vessel. Applicable taxes are already included in the pricing. It is currently anticipated that two 80 cubic foot vessels, one 157 cubic foot vessel (Diablo Village), and 40 cubic feet from Lazy B will need to be regenerated under this annual quote

The usage of this annual quote will be on an as needed basis when regeneration is required. Funding for the regenerations will be from the appropriate line item in the approved Budgets.

**Staff Recommendation**

It is recommended by staff that the Board approve the annual quote for Water Treatment Media Regeneration and award Purolite the regeneration of the District's Arsenic Treatment Media.

**Suggested Motion**

I move to approve the annual quote for Water Treatment Media Regeneration and award Purolite the regeneration of the District's Arsenic Treatment Media.

Respectfully submitted,

Steven D. Shepard  
Utility Superintendent

I concur with the above-noted recommendation.

Respectfully submitted,

Joseph Olsen, P.E.  
General Manager