



PARADISE IRRIGATION DISTRICT

"Paradise Irrigation District (PID) is dedicated to the business of producing and delivering a safe, dependable supply of quality water in an efficient, cost effective manner with service that meets or exceeds the expectation of our customers."

Please consider how this agenda item relates to our mission.

To: Board of Directors

**From: Jim Passanisi - Water Treatment Superintendent
Bill Taylor - Water Treatment Operations Supervisor**

Date: March 21, 2018 (Regular Board Meeting)

Re: Purchase of Chlorine Analyzer Replacement

The Treatment Plant has three chlorine residual analyzers. The first analyzes chlorine as raw water comes into the plant (pre-analyzer), the second as water comes off the gravity filters (FW1), and the third analyzer as water is sent to town (FW2 - Photo Attached). After a recent power outage, chlorine analyzer FW2 experienced a couple of failures. Plant operators were able to get it up and running; however, the unit is original to the plant (1995) and should be replaced due to the issues we have had, and replacement parts are no longer available.

In 2010 we replaced the pre-analyzer. At the same time we added the FW1 chlorine analyzer. A Wallace & Tiernan (WT) MFC analyzer with Depolox 5 units was purchased (See Photo Attached). Borges & Mahoney, our area representative for Wallace & Tiernan was contacted and confirmed that the MFC analyzer is still in production, and would be best for our use. We recommend the purchase of the following from Borges & Mahoney:

1 – Wallace & Tiernan MFC Analyzer	\$4,000
1 – Depolox 5 Cell for Free Chlorine	<u>\$1,892</u>
Total	\$5,892

Borges & Mahoney is the sole supplier for this equipment as they are the WT representative for our area. Another chlorine analyzer supplier is Hach that sells the CLF10sc, which costs \$4,417, but that would leave us with a different brand of equipment. There are benefits of keeping all the equipment the same (i.e. standardized), since similar equipment goes through the same calibration procedure, and in the event of a failure, components can be moved between units and put back online.

Action Requested:

Authorize the purchase of a Wallace & Tiernan MFC analyzer with Depolox 5 Cell for Free Chlorine unit from Borges & Mahoney at cost of \$5,892, plus tax and shipping.

Existing (1995) Obsolete Chlorine Analyzer (FW2) to Replace



**2010 Chlorine Analyzer (FW1 - Right), and
Back of the 1995 Chlorine Analyzer (FW2 - Left)**

