



INTERNAL OFFICE MEMORANDUM

TO: Robert Rivera
FROM: Greg Wikholm
DATE: 3/22/2021
RE: ChemScan Process Analyzer

The ChemScan that monitors the monochloramine and free ammonia in the plant effluent is over 14 years old and is at the far end of its estimated life cycle of 10 - 15 years. We initially budgeted to replace this instrument this year but due to the estimated cost of the booster pumps for the elevated storage tank and other fiscal concerns this item was removed from this year's budget. We now are facing an issue where the instrument is overheating and giving incorrect readings and will need to be repaired or replaced. We are currently opening the door to the upper enclosure and allowing the heat to dissipate and while that brings the readings back in line it is not a long term solution and needs to be addressed soon.

The quote (attached) we received from the manufacturer to repair this instrument is \$4000.00 for the service call and parts not to exceed \$3000.00. We also received a quote (attached) for what a new instrument would cost in the amount of \$44,536. This includes one wall mounted ChemScan Model UV-2250/S Process Analyzer, initial on-site installation assist and calibration.

The ChemScan Analyzer offers continuous, on-line monitoring for parameters that are critical to water quality and ensure compliance with the Florida Department of Environmental Protections Regulations for process monitoring.

ChemScan is the sole manufacturer of the ChemScan Process Analyzer and the unit has proven to be an extremely reliable analyzer and has been used exclusively for the monitoring of Monochloramine and Ammonia residuals at the City's Water Treatment Plant since 2009. Sole source letters and forms have been received in accordance with the City's Purchasing Policies.

I believe that due to the advanced age of the analyzer and the fact that it is at the extreme end of its expected life cycle that it would be in the City's best interest to purchase a new analyzer rather than put the money into repairs of the current one. There is a good chance that due to the advanced age of the analyzer other parts are worn out and will start to fail as well. Would it be possible to do a budget amendment and take funds from the \$300,000 that we had budgeted for the pumps at the elevated and use it towards this purchase?