



Interoffice Memorandum

August 16, 2018

TO: Mayor Teresa Jacobs
and the Board of County Commissioners

FROM: Carrie Mathes, Manager, Procurement Division

CONTACT: Michael J. Hudkins, P.E., Manager, Water Reclamation Division
407-254-9685

SUBJECT: Approval of Purchase Order M91715, Ragless Mixer Impellers

ACTION REQUESTED:

Approval of Purchase Order M91715, Ragless Mixer Impellers, with Nov Process & Flow Technologies, US, Inc., in the amount of \$171,648.

PROCUREMENT:

The purpose this contract is to procure 12 ragless mixer impellers to replace the standard impellers currently installed on the mixers for the Southeast Aeration Basin at the South Water Reclamation Facility.

FUNDING:

Funding is available in account 4420 038 1555 0024 6310.

APPROVALS:

The Water Reclamation Division concurs with this recommendation.

REMARKS:

The existing mixer gear box and motor assemblies were procured from Chemineer. The Chemineer replacement impellers are the only parts that will insure complete compatibility with existing equipment. Nov Process & Flow Technologies US, Inc. is the manufacturer and sole distributor of Chemineer products.

Vertical mixers are utilized in the wastewater treatment process to keep solids in suspension and to provide adequate mixing. Rags and debris present in the wastewater can become tangled around the rotating shaft and mixer blades (impellers). This not only decreases mixing efficiency and increases electrical cost, but also causes the mixer to become unbalanced causing wear on the gearbox. The rags must then be manually removed, which requires substantial staff time and costs, including crane rental, increasing operational and maintenance costs.

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Purchase Order M91715, Ragless Mixer Impellers

The price is considered fair and reasonable based on an analysis of similar procurements for Hillsborough County and Pinellas County. For comparison, these entities were charged between \$159 and \$163 per inch-diameter of the impeller, depending on the model. The quote for Orange County is below this range, at \$158 per inch-diameter.

This item was posted as a sole source for 10 days on our website for verification and to solicit possible competition. Additional quotes from the vendor community were not received.