



September 4, 2018

TO: Mayor Teresa Jacobs  
and the Board of County Commissioners

FROM: Carrie Mathes, Manager, Procurement Division

CONTACT: Andres Salcedo P.E., Assistant Director, Utilities Department  
407-254-9719

SUBJECT: Approval of Purchase Order M92209, Ice Pigging Services

**ACTION REQUESTED:**

Approval of Purchase Order M92209, Ice Pigging Services, with Utility Service Company, Inc., in the amount of \$270,000.05.

**PROCUREMENT:**

The purpose of this purchase order is to procure ice pigging services, which is a pipe line cleaning process in which ice slurry is pumped into the water mains and forced through under pressure. The process removes sediment and deposits which in turn cleans the mains. This project is located in District 1.

**FUNDING:**

Funding is available in account number 4420-038-1328-3843.

**APPROVALS:**

The Field Services Division concurs with this recommendation.

**REMARKS:**

The Williamsburg area, located south of State Road 528 between International Drive and John Young Parkway, has been experiencing an increase in water quality issues (smelly water, dirty water, low chlorine, and bad tasting water). Customer complaints increased in the summer months due to reduced flow and higher temperatures. Utilities Field Services performed a pipe analysis and found material deposits (sulfur based with notable iron content) on pipe walls. The sampling found elevated sulfide in the first flush samples and sulfide and water movement appear to be key contributors. Reiss Engineering recommended the ice pigging method to remove buildup of material.

Utility Service Company, Inc. is the sole rights holder of the ice pigging technology for the United States.

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Purchase Order M92209, Ice Pigging Services

The price is considered fair and reasonable based on an analysis of similar services performed for Union County, North Carolina and Fort Upton, Colorado. For comparison, these entities were charged between \$10,000 and \$12,500 per load. The quote for Orange County is within this range, at \$10,000 per load.