

Service Agreement for In-Service Treated Water Leak Detection and Mapping of Laguna Madre Crossing and Port Aransas Pipelines

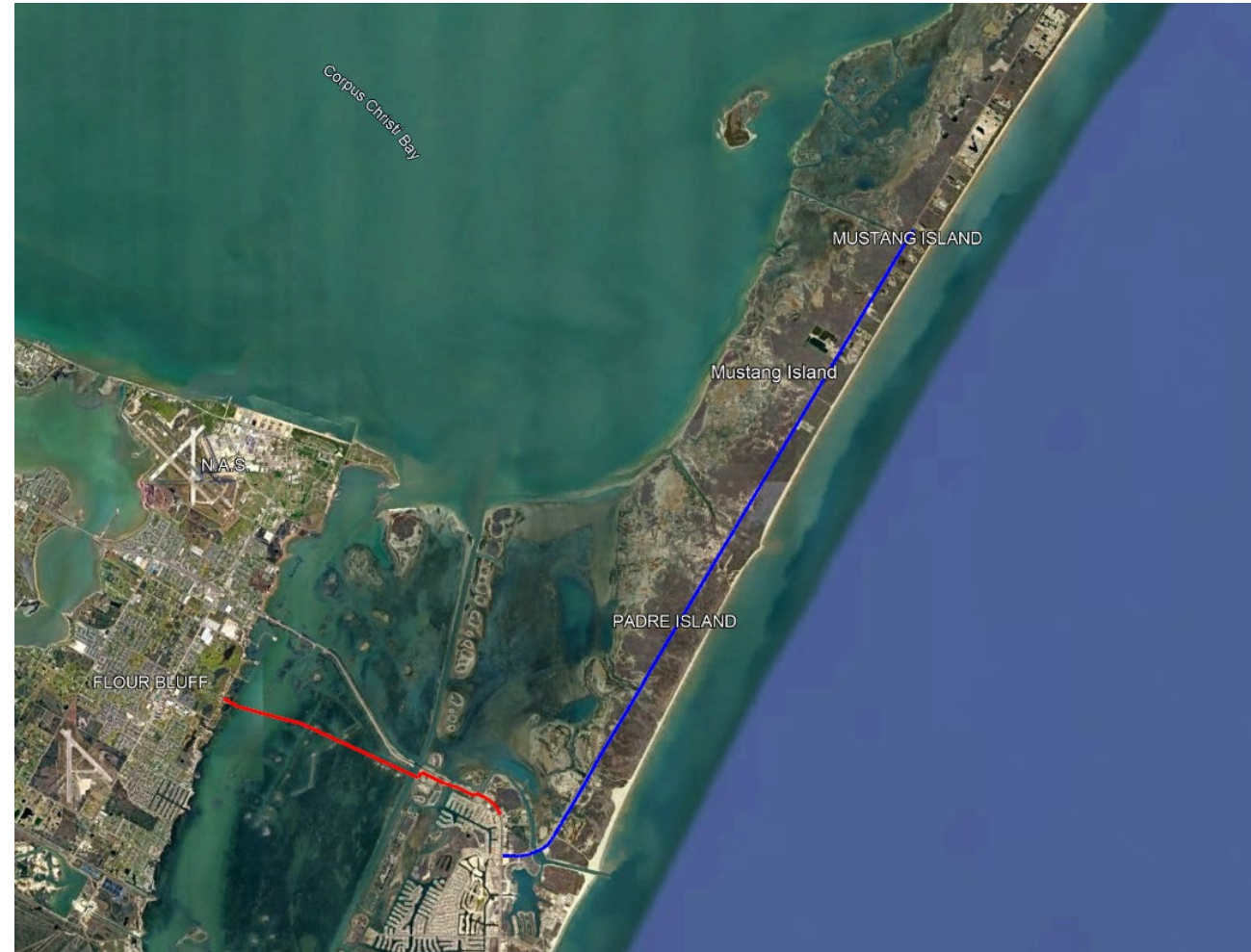
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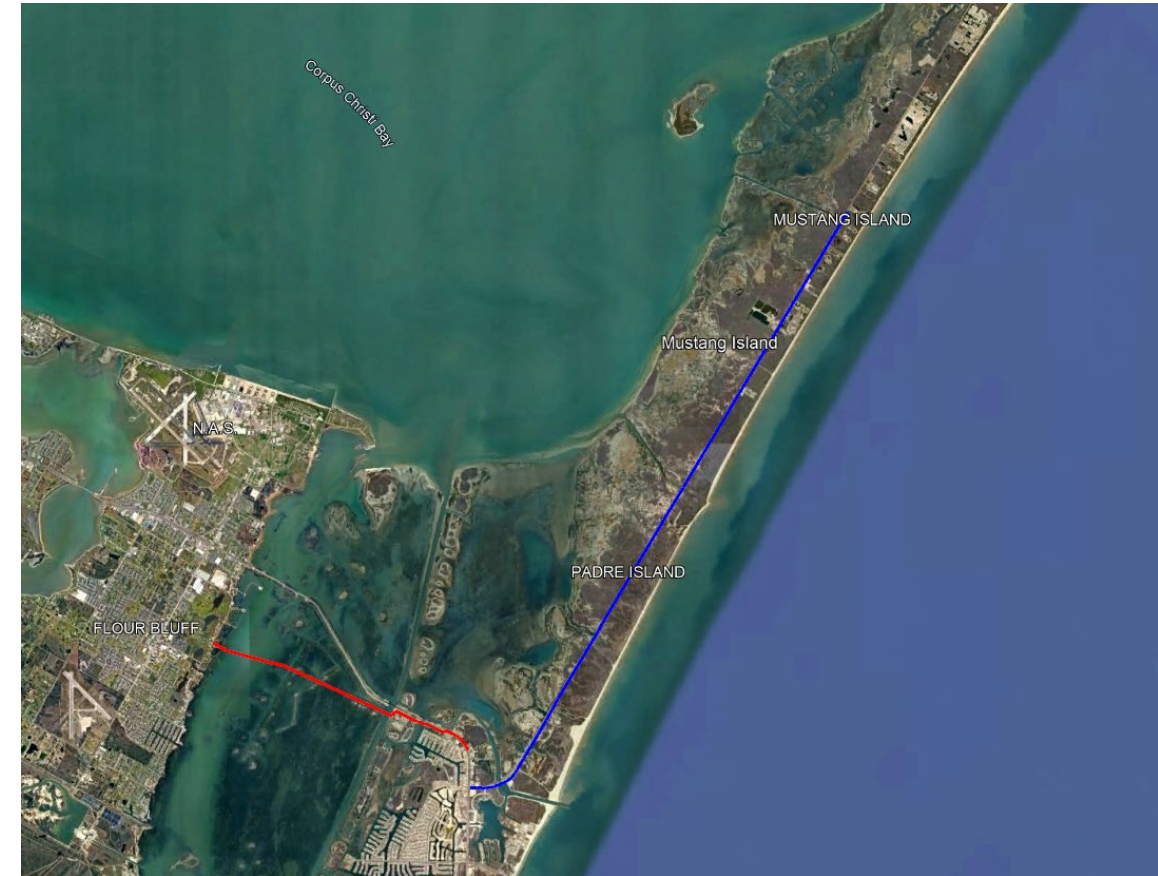
Background

- Corpus Christi Water (CCW) operates two major treated-water transmission pipelines serving southern Padre Island and Mustang Island:
 - Laguna Madre Crossing (approximately 4.15 miles of 24-inch Steel Pipe)
 - Port Aransas Pipeline (approximately 7 miles of 20-inch and 16-inch Cement Pipe/PVC)
 - Together, these assets total roughly 11.2 miles of critical infrastructure in continuous service
- To proactively manage these pipelines and reduce the risk of undetected leaks or operational failures, CCW proposes a resolution authorizing a one-year service agreement with Pure Technologies to conduct in-service leak detection, air pocket detection, and mapping assessment, using Pure Technologies' SmartBall inspection tool



Scope, Fiscal Impact, and Staff Recommendation

- The SmartBall tool can be deployed while pipelines remain active, identifying leaks and air pockets within 6-foot accuracy, and collecting motion data used to produce a true X-Y alignment of each pipeline
- The scope also includes 30-day transient pressure monitoring to evaluate surge pressures that can contribute to pipe wall stress and failure
- Results will provide CCW with verified leak locations, identification of trapped air pockets, updated GIS pipeline alignment, and surge pressure data, enhancing operational reliability and supporting long-term asset management
- The fiscal impact for Corpus Christi Water for FY 2026 is \$340,549.50 from the 4010 Water Fund
- Staff recommends approval of the resolution





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