



AGENDA ITEM SUMMARY

Agenda Date	May 13, 2025
Requested Action	APPROVE RESOLUTION NO. 2025-R28, A RESOLUTION OF THE CITY OF BOERNE, TEXAS AUTHORIZING THE CITY MANAGER TO CONTRACT WITH ENVIRONMENTAL IMPROVEMENTS, INC. TO REPLACE ONE CLARIFIER CENTER DRIVE ASSEMBLY AT THE OLD SAN ANTONIO ROAD WASTEWATER TREATMENT AND RECYCLING CENTER (WWTRC) FOR AN AMOUNT NOT TO EXCEED \$130,000.
Contact Person	Michael Mann – Utilities Director
Background Information	<p>Our Old San Antonio Road Wastewater Treatment and Recycling Center has redundant treatment units to process flows as required by the TCEQ. After the flow exits the basins where biological action breaks down organics, the flow enters clarifier basins that separate the mix into reclaimed water and biomass (sludge). Within the clarifiers, the sludge settles to the bottom where it is mechanically swept into a submerged basin. Part of the sludge is returned to the BNR basins and part is sent to dewatering and disposal.</p> <p>The clarifiers work using a center pivot assembly that rotates upper and lower units. The purpose of the upper unit is to remove any film from the surface of the water, and the lower unit has a series of squeegees that “sweep” the settled sludge into a collection basin. A few weeks ago, one of the center pivot assemblies stopped rotating. The diagnosis was a defective drive assembly in the center pivot. We have requested funding in the upcoming budget to replace that drive assembly.</p> <p>However, we noted that the rotation on the remaining clarifier was slightly sporadic at times. The manufacturer’s representative has observed that unit and believes that failure of the center pivot drive in that basin is imminent as well. If neither basin is functioning, our ability to process flows would be significantly hampered. Thus, we are requesting funding to repair the defective unit immediately, and we can repair the other drive after the beginning of the next fiscal year budget.</p> <p>Each clarifier’s diameter is about seventy-six feet, and they are about eighteen feet deep. Replacement of the center drive assembly requires temporary support of the upper bridge and the lower sweeper</p>

	<p>assemblies spanning the basin near the top and bottom. Environmental Improvement, Inc.'s price of \$123,655.47 includes all labor, equipment and materials to replace the drive on one clarifier. This is a sole-source purchase, so complete bidding of the work is not required per our purchasing policy or State Law. However, specific approval of the Council must be obtained per the City Charter requirements since the expenditure is greater than \$50,000.</p> <p>We request that the Council authorize expenditure of up to \$130,000 in case there are any slight increases in the work scope other than those already contemplated. Assuming the proposed FY budget includes the replacement of the rotating assembly for the second clarifier, we will take necessary steps to seek expenditure for that cost at the appropriate time.</p> <p>Staff have already coordinated with the equipment designers and manufacturers regarding additional maintenance to hopefully prolong the life of the replacement units.</p>
Strategic Alignment	<p>F1 – Committing to strategic, responsible, and conservative fiscal management.</p> <p>F2 – Investing in and maintaining high-quality infrastructure systems and public assets.</p>
Financial Considerations	Funding for this work is not included in the FY 2025 budget. However, funding is available this year due to allowable delays in other capital projects that were budgeted.
Citizen Input/Board Review	N/A
Legal Review	N/A
Alternative Options	We could choose not to move forward with repair at this time, and budget for both replacements in the next fiscal year. However, we would be at further risk of treatment complications if both units cease working. It will take about twelve weeks to complete the installation on each unit.
Supporting Documents	<p>Resolution No. 2025-R28</p> <p>Environmental Improvements, Inc. cost quote</p>