

3/12/2018
 To: Mayor and City Council members
 Design ramping up for the new plant at Barry Rose/Pearland Pkwy, adjacent to existing. Clay



Barry Rose WRF Expansion

Scope: In 2016 a Preliminary Engineering Report began to determine the specific design parameters required for the plant expansion, including volume and biological loading. Expansion of the plant capacity design will begin in 2018. In 2020 construction of the expansion of treatment plant will begin, which will be a separate plant to be run in parallel with the existing plant.

Justification: The TCEQ rules require the initiation of engineering and financial planning to upgrade a water reclamation facility when the flows reach 75% of the plant capacity. The facility is currently treating approximately 59% of the capacity and current projects are underway to remove flows from Longwood facility and shift to Barry Rose therefore increasing loads at Barry Rose facility above the 75% requirement. This is also to meet TCEQ's goal of regionalization of wastewater treatment facilities.



Project Manager: Quang Nguyen

Designer: Stantec (formerly MWH Americas)

Contractor:

Budget Info:

	<i>Budget</i>	<i>Encumbered</i>	<i>Change Orders</i>	<i>Balance</i>
<i>Prelim. Eng.</i>	\$773,209.00	\$683,713.60	\$89,495.00	\$0.40
<i>Land</i>				\$0.00
<i>Engineering</i>	\$4,980,000.00			\$4,980,000.00
<i>Construction*</i>	\$53,300,000.00			\$53,300,000.00
<i>FF&E</i>				\$0.00
<i>Contingency*</i>	\$3,926,791.90			\$3,926,791.90
Total	\$62,980,000.90	\$683,713.60	\$89,495.00	\$62,206,792.30

*scheduled in FY20 & FY21

Schedule Info:

	<i>Base Line</i>	<i>Current</i>
<i>Design Start</i>	October-16	June-2018
<i>Bid Start</i>	January-20	
<i>Construction Start</i>	March-20	
<i>Proposed Construction Completion</i>	March-22	

Highlights:

- Draft Preliminary Engineering Report (PER) was submitted to City in August 2017.
- Draft PER also includes results and test data from the pilot study to assess loading parameters and performance for membrane bio-reactor treatment equipment and methodology.
- Comments on the Draft PER were provided to Stantec by Staff in December 2017.
- Final PER, submitted to City in February 2018, which included completed loading data and evaluation of treatment methods, in being reviewed by Staff at this time.
- Current operating permit for Barry Rose plant expires in September of this year. The Texas Commission on Environmental Quality (TCEQ) requires that a renewal application be submitted to TCEQ 6 months prior to the expiration date. In January 2018, Stantec, on behalf of the City, submitted a Permit Renewal Application to TCEQ. Comments from TCEQ were received and a revised Permit Renewal Application was submitted to TCEQ on February 19, 2018.

Previous Memos: September 27, 2016.

EXHIBIT A PROJECT LOCATION MAP

