



EGG-SHAPED DIGESTERS & SLUDGE STORAGE TANK

CLIENT - McCarthy / Sundt
LOCATION - Mesa, AZ
COMPLETED - 2019

DESCRIPTION

Matrix engineered, fabricated, and constructed two 1.2 million-gallon (67' diameter X 84' overall height) egg-shaped digesters (ESDs) and one 1.2 million-gallon (66' diameter X 87' shell height) sludge storage tank. The project also included the construction of two catwalks, pipe bridges, and vessel platforms.

Matrix also drafted and procured the steel vessels, in addition to the design and erection interface for the foundations, piping, and cladding.

Egg-shaped digesters anaerobically treat municipal sludge. The benefits of ESDs include operational advantages over conventional low-profile, cylindrical digesters. ESDs promote more significant mixing of digester contents, elimination of grit and scum accumulation, and elimination of gas leakage as well as reduced heating costs and reduced land-area requirements.

FOR MORE INFORMATION:

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The project was awarded the AWPCA's 2007 Wastewater Project of the Year and the APWA's 2008 Public Works Environmental Project of the Year. Additionally, it was completed eight days before the scheduled contract completion date.

PRINCIPAL FEATURES

- Design and erection interface for foundations, piping, and cladding
- Engineering, drafting, procurement, fabrication, and construction of vessels
- Two 1.2 million gallons: (67' diameter x 84' overall height) egg-shaped digesters
- Construction of catwalks, pipe bridges, and platforms
- One 1.2 million-gallon (66' diameter x 87' shell height) sludge storage tank



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