

New Wastewater Treatment Plant (Extended Air Sequencing Batch Reactor) - City of Emory, Texas



DESIGN PARAMETERS:

<i>Hydraulic Capacity</i>	<i>Effluent Limits</i>
Average Daily Flow: 0.3 MGD	BOD ₅ : 10 mg/l
Peak 2-Hour Flow: 1.2 MGD	TSS: 15 mg/l
<i>Biological Capacity</i>	NH ₃ -N: 3.0 gm/l
BOD ₅ : 500 ppd	D.O.: 6.0 mg/l (minimum)
TSS: 500 ppd	pH: 6.0 to 9.0
	Cl ₂ Residual: 1.0 gm/l (minimum)

Hayter Engineering was the prime consultant, design engineer, and project manager for the City of Emory, and assisted the City in obtaining a grant from the US Department of Agriculture Rural Development and the Texas Department of Rural Affairs for a new wastewater treatment plant to meet TCEQ requirements and capacity needs due to growth.

Improvements included: Sequencing Batch Reactor treatment unit with **blowers**, digester; package mechanical screen and grit channel; yard piping and junction box; splitter box; cascade outlet; Parshall flume; chlorine contact chamber; auxiliary generator and pad; electrical and control instrumentation; drain return lift station; sludge dewatering box, polymer feed & chlorine; abandonment of an aerated lagoon; and conversion of two stabilization lagoons to stormwater holding ponds.

Services provided by Hayter Engineering are listed at right.

The new wastewater treatment plant was completed in 2011.

CLIENT

City of Emory

CONTACTS

Mike Dunn, CPM
 City Administrator
 City of Emory
 399 N Texas St (POB 100)
 Emory, TX 75440
 Email: mdunn@emorytx.com
 Phone: 903.473.2465 ext. 111

CONSTRUCTION COST

\$1,857,579

CHANGE ORDER PERCENTAGE:

0.25 %

SERVICES PROVIDED:

Financial Application
 Preliminary Engineering Report
 Cost Estimates
 Design Plans & Specifications
 Design Surveys
 Boundary-Property Surveys
 Geotechnical Engineering
 Easements
 Discharge Permits
 Construction Bid & Award
 Construction Review
 TDLR Review
 O & M Manual
 Materials Testing
 Warranty Review