



Throop WWTP Anaerobic Digester Upgrade

Lackawanna River Basin Sewer Authority

Bassett Engineering Inc.

Project Cost:

\$1,735,000

Project Team:

**Britt Bassett, PE, BCEE,
Project Manager**

Connor Bassett, EIT

Contractor:

**Eastern Environmental
Contractors, Inc.**

Timeline:

2017-2020

Bassett Engineering

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Bassett Engineering worked with Lackawanna River Basin Sewer Authority to replace the existing 65-foot diameter digester covers at LRBSA's Throop Wastewater Treatment Plant. The existing steel truss type floating covers, originally installed in 1969, were in poor condition while offering little to no gas storage space. As a part of design, several cover types were evaluated for the replacement including beam floating covers, truss gas holder covers, and dual-membrane gas holder covers which were selected. Bassett Engineering designed and managed all phases of construction and startup of the project.



The project focused on the replacement of the digester covers but also included:

- Improved TWAS feed piping and digester mixing.
- Cover system air supply piping.
- Improved gas draw-off piping and safety mechanisms.
- Tie-in to the plant's existing SCADA system.
- Digester cleaning and tank rehabilitation.
- Demolished existing steel floating covers.
- Concrete wall caps to accept new covers.
- Instrumentation and controls.



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