



# Project Spotlight

## Lanier Filter Plant - Gwinnett County, GA

Owner: Gwinnett County, Georgia  
Installer: SERD Construction

Engineer: Haines, Gipson & Associates, Inc.  
General Contractor: Kevin Price Construction



### Background Information

Winner of the American Council of Engineering Companies' 2010 State Award in Engineering Excellence, the Gwinnett County's Lanier Filter Plant is a bastion of water conservation and recycling. The Lanier Filter Plant recycles up to 16 million gallons of clarified backwash water per day during peak operations, significantly reducing the water withdrawal from nearby Lake Lanier. When the plant was in need of renovations, Gwinnett County sought out the highest quality in products and craftsmanship.



### Project Details



A significant portion of the renovation project included the abandonment of two large underground vaults, which required the installation of a flowable fill material that would be lightweight, with a density of less than 60 pcf, yet with a high compressive strength to provide the support needed for these abandoned structures. With these requirements, Aerix Industries' AERLITE-iX™ provided an ideal solution. When combined with cement, AERLITE-iX produces a lightweight cellular concrete that features extreme compressive strength and provides industry-leading design and application flexibility.



The installation crew from SERD Construction pumped 40 cubic yards of 30-pcf AERLITE-iX into the two abandoned vaults, using three lifts for each vault. During this installation, the SERD team weighed the AERLITE-iX foam daily and regularly tested the wet density of the installed product to ensure the highest quality performance.

### Aerix Added Value

Because of its lightweight, flowable characteristics, AERLITE-iX is easy to install and provides an ideal solution for below-grade applications like this vault abandonment. While it is lightweight, AERLITE-iX also features a high compressive strength that provides incredible stability, an element that was necessary for this project in preventing future soil settlement or cracking of the abandoned vault structures. With AERLITE-iX, the Lanier Filter Plant can continue its incredible water conservation without disruption.

