

SEEPAGE CONTROL > DAM/LEVEE ENHANCEMENT

# SHUGERT LANE DAM REPAIR

LORE CITY, OH (COMPLETED MAY 2019)



Owners of the Shugert Farm learned after constructing a multi-million-dollar farm pond that their dam was in jeopardy of leaking substantial amounts of water from an underdrain pipe adjacent to the spillway wall. Removal of the spillway wall or parts of the dam's embankment material was risky, but there were very few other options available for this type of repair. Fortunately, the owners discovered AquaBlok as a sustainable engineered solution to seal the underdrain and preserve the spillway wall. After excavating

and exposing the underdrain, the contractor was also able to place AquaBlok in a constrained area that would have presented major challenges to that of conventional compacted backfill. After covering with a geotextile fabric and a combination of topsoil and rock riprap, the AquaBlok hydrated and swelled to create an impervious, durable seal over the leaky underdrain. The procedure was repeated on the other side of the spillway, and water loss was stopped through the dam.

## GEOTECHNICAL sealing solutions

**COMPOSITE BENTONITE AGGREGATE** composed of a specific gradation of stone coated with sodium bentonite and a proprietary binder.



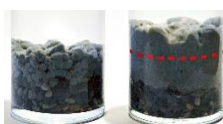
**HOW AQUABLOK WORKS** AquaBlok Composite particles expand when hydrated, transforming the material into the cohesive seal that self-compacts and conforms to uneven surfaces. The result is a natural and sustainable hydraulic barrier.



AquaBlok Dry



AquaBlok Hydrated



AquaBlok Hydrated [24 hr]

SEEPAGE  
CONTROL

POND  
SEALING

REPAIRS

For technical support or questions regarding geotechnical engineering applications, please contact

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