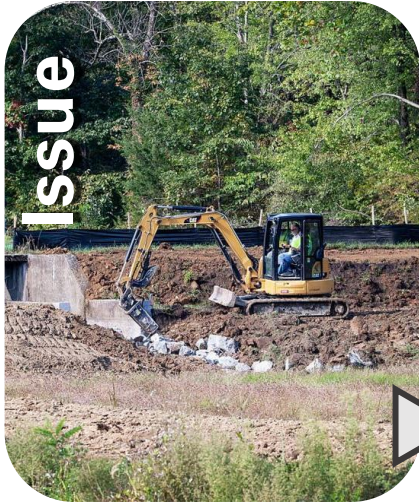


SEEPAGE CONTROL > CUTOFF WALLS/HYDRAULIC BARRIERS

# FRONT ROYAL FISH HATCHERY

STRASBURG, VA (COMPLETED MAY 2021)



A major renovation project at the Front Royal Fish Hatchery began in the Fall of 2020, with \$10 million of funding from a legal settlement between the Commonwealth of Virginia and a chemical company. The funding was used to reshape and line several ponds and upgrade water intake systems and buildings. A cement-bentonite slurry cutoff wall was constructed between two of the ponds to prevent seepage, but the design was later modified to include a new 12" PVC drain line that required penetration of the wall. The engineer (HDR) identified this as a critical need to preserve seepage controlling performance of the wall, and chose Composite Bentonite Aggregate by AquaBlok to

construct collars on either side of the cement-bentonite wall. ACF Environmental sold the AquaBlok product to Summit Environmental Services, LLC, who was the contractor on the project. Summit was able to excavate to and through the wall to install the drain pipe, and then quickly and easily install approximately 38 tons of AquaBlok material for the two collars. Once initially hydrated, the AquaBlok sealed along the wall-pipe interface and was backfilled later that day. The engineer and owner now have confidence that the wall will continue to provide seepage protection after the drain pipe installation.

## GEOTECHNICAL sealing solutions

SEEPAGE  
CONTROL

POND  
SEALING

REPAIRS

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



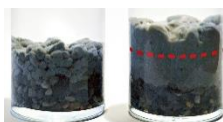
**HOW AQUABLOK WORKS** AquaBlok Composite particles expand when hydrated, transforming the material into the cohesive seal that self-compacts and conforms to uneven surfaces. The result is a natural and sustainable hydraulic barrier.



AquaBlok Dry



AquaBlok Hydrated



AquaBlok Hydrated (24 hr)

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

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