

SEEPAGE CONTROL > TRENCH DAMS/ANTI-SEEP COLLARS

SIoux COUNTY WETLAND RESTORATION

MCINTOSH, ND [COMPLETED NOVEMBER 2020]



Several organizations support annual grants for landowners across North Dakota to repair and improve dams that foster wetland habitat for migrating waterfowl, with design and construction managed by the North Dakota Natural Resources Trust (NRT). One wetland system on private property in Sioux County, ND was in jeopardy of dam breach and water loss from an aging drainage structure and spillway pipe, threatening the ecological stability of almost 20 acres. Landowner contribution in conjunction with grant funding went towards the restoration of the wetland dam and outfall system, including seepage control along the

primary HDPE spillway pipe. Instead of importing expensive clay or risking the sealing performance of a thin plastic collar, AquaBlok was selected for a permanent trench dam along the pipe. AquaBlok was installed within a simple form placed over the pipe and hydrated to achieve self-compaction with restrictive permeability within well-drained soils. Time and money were saved in the installation, but more importantly, long-term reliable seepage prevention ensures that this wetland serves as protected wildlife habitat for decades to come.

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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