

REPAIRS > SYNTHETIC LINER REPAIR

WATERFORD TOWNHOMES POND HDPE LINER REPAIR

ROCHESTER, MN (COMPLETED JUNE 2009)



Issue



Solution



Result

When the Waterford Townhomes Development was built in 1994, a High Density Polyethylene (HDPE) liner was installed to create a 2.6-acre stormwater pond. The HDPE liner kept the pond at a constant level for 15 years. But in 2009, leaks in the liner started causing gradual water loss. Cover soil placed above the liner had washed away, and UV degradation of the HDPE resulted in rip and tears of the liner. Welded repairs were ruled out because of the age and condition of the liner, and clay capping was deemed too expensive, with issues preventing

placement. AquaBlok was chosen to seal and stop leaks, and cover and protect the liner from additional damage. AquaBlok was placed atop the existing liner along the bank using small equipment with minimal disturbance. Over 10,000 lineal feet of shoreline was covered with AquaBlok in just a few days, saving substantial time and costs versus other solutions. Ultimately, AquaBlok was partially covered with rock riprap to complete the shoreline restoration and save the pond.

GEOTECHNICAL sealing solutions

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



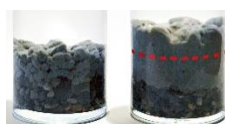
HOW AQUABLOK WORKS AquaBlok Composite particles expand when hydrated, transforming the material into the cohesive seal that self-compacts and conforms to uneven surfaces. The result is a natural and sustainable hydraulic barrier.



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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