

# ADVANCED REVETMENT TECHNOLOGY FOR USE ON HIGH HAZARD DAMS



  
**HydroTurf<sup>®</sup>**  
Advanced Revetment Technology



ENGINEERED SYNTHETIC TURF

HYDROBINDER® INFILL (5,000 psi)

GEOMEMBRANE

HydroTurf® is featured as a viable alternative for dam protection in FEMA's Technical Manual: Overtopping Protection for Dams.



### HydroTurf® Dam Overtopping Protection:

A compromised dam can lead to failure, causing significant downstream damage including loss of life and property. The **HydroTurf® Advanced Revetment System** is specifically designed to provide overtopping protection for spillways and earthen embankment dams from the erosive forces of water. Many embankment dams have a high probability of failure due to inadequate height and insufficient spillway capacity. HydroTurf has been shown to withstand 5.5 feet of overtopping, resulting in a velocity of 40 fps with no instability, erosion or damage. Testing has also shown exceptional performance in severe hydraulic jump and wave overtopping conditions.





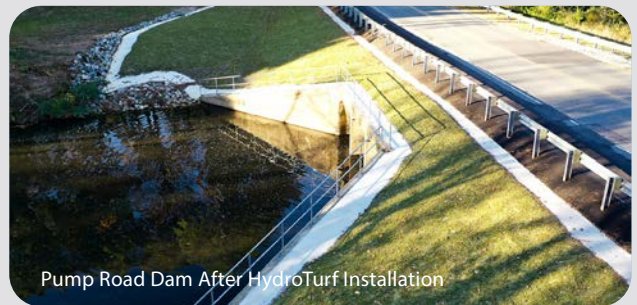
Scan me to see  
HydroTurf in action!

### HydroTurf® Provides Benefits over Traditional Armoring Solutions:

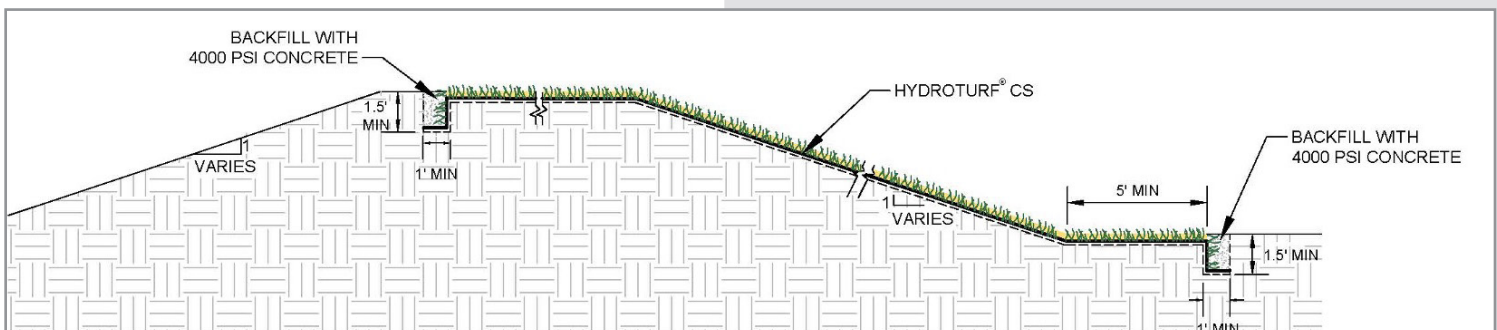
- Excellent hydraulic performance
- 50+ years of functional longevity
- Lower construction costs than hard armor
- Rapid, low-impact and scalable construction
- Minimal, long-term maintenance
- Natural aesthetics
- Designed to last in severe weather conditions
- Flexible to conform to changing subgrades



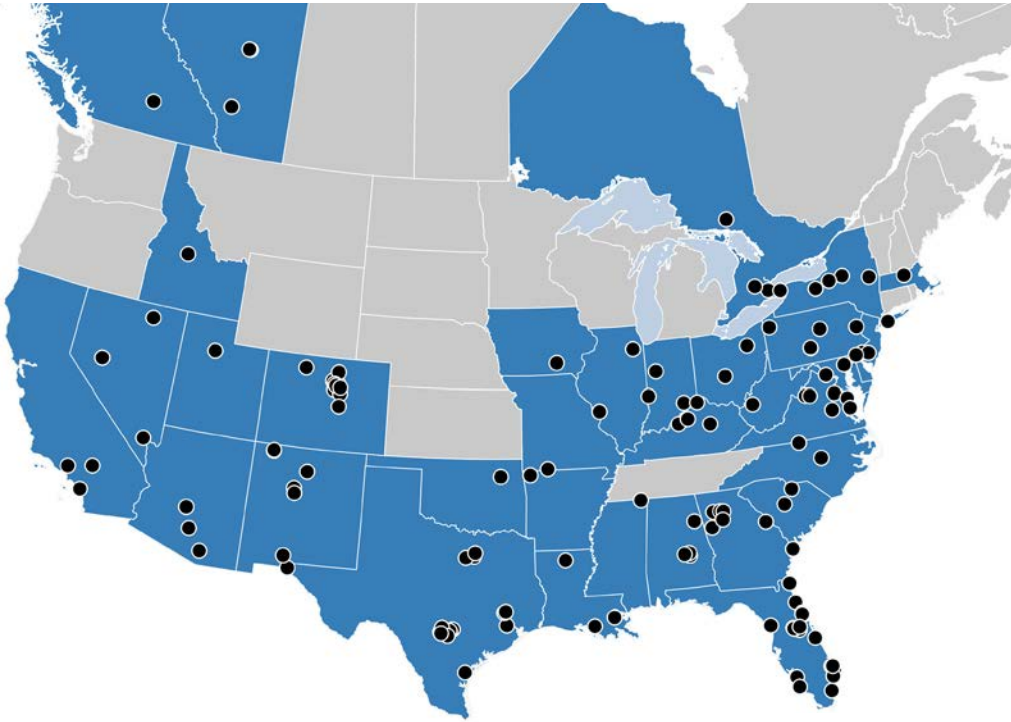
Pump Road Dam Before HydroTurf Installation



Pump Road Dam After HydroTurf Installation



HydroTurf® has over 6,000,000 SF installed across North America.



HydroTurf® has been comprehensively tested at Colorado State University (CSU). CSU has long been a leader in hydraulic modeling and overtopping performance testing. HydroTurf exceeded the maximum steady state overtopping velocity of 40 fps allowing no erosion.



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Unearthing Solutions

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