

# An Advanced STORM WATER MANAGEMENT SYSTEM for Landfills



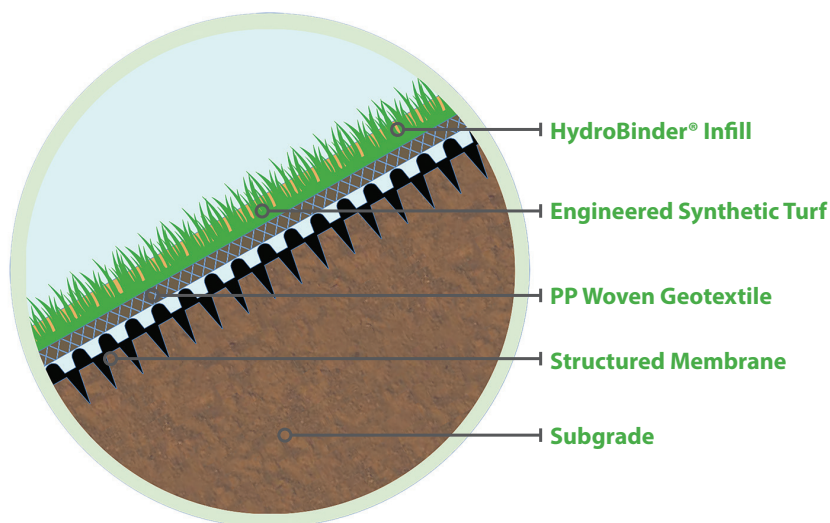
  
**HydroTurf<sup>®</sup>**  
Advanced Revetment Technology





## SUPERIOR EROSION PROTECTION

HydroTurf® is an innovative, environmentally-friendly alternative revetment to rock and concrete hard armor for landfill storm water management systems. It is a patented, three-component system made up of a structured geomembrane, an engineered synthetic turf and a specialized cementitious infill called HydroBinder®. Created specifically for hydraulic applications on landfills, HydroTurf will flex and move with typical differential settlements without compromising performance. It provides superior hydraulic performance capable of handling large flows resulting in very high velocities.



### HydroTurf® Can Be Used in These Storm Water Management System Applications:

- Downchutes
- Perimeter Channels
- Bench Drains
- Outfall Structures
- Slopes
- Basins





Slope Protection





Perimeter Channel

## **DON'T SETTLE FOR SETTLEMENT FAILURE**

It's a fact, all landfills settle. Most hard armor solutions do not perform well under these settlement conditions. Once they crack or sink, undermining begins and they become ineffective. HydroTurf performs under all site conditions. It is designed to be flexible, impermeable and stay in place.





## CHOOSE PERFORMANCE OVER TRADITION

HydroTurf® offers rapid, low impact installation that's significantly less costly than hard armor and piping, and it is projected to last more than 50 years when properly maintained. The system also provides many environment benefits. By effectively filtering surface water, the end result is clean runoff with very low turbidity. In addition, it significantly reduces sediment loading in channels and sedimentation/detention basins both on and offsite. By offering superior erosion control, pointedly less turbidity and significantly less maintenance, HydroTurf provides a superior solution for landfill storm water management systems over traditional methods.



**Downchute Armoring & Large Perimeter Channel**





Perimeter Channel



## **BENEFITS OVER TRADITIONAL LANDFILL STORMWATER MANAGEMENT SYSTEMS:**

- Excellent hydraulic performance
- Less costly
- 50+ years of functional longevity
- Flexible solution for all settlement conditions
- Impermeable for superior erosion control
- Lightweight for rapid, low-impact and scalable construction
- Easy to install in difficult areas
- Minimal long-term maintenance
- Natural aesthetics to match surrounding environment



**HydroTurf®  
protects against  
40 ft/s velocity with  
no instability  
or damage.**



**HydroTurf® has been comprehensively tested at Colorado State University (CSU). CSU's laboratory has the largest flumes for hydraulic testing in the world. HydroTurf did not reach failure at a maximum steady state overtop velocity of 40 feet/second and for 13 hours in the wave overtop simulator being subjected to a five-hundred-year hurricane event for the New Orleans region.**



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