Every site has unique challenges created by soil characteristics, topography, climate and other environmental conditions. The RollMax™ System Rolled Erosion Control Products (RECPs) conquer all your site challenges. Whether you need temporary or permanent protection, short-term or long-term durability, biodegradable or photodegradable solutions, our RollMax RECPs deliver a wide variety of advantages, features and benefits:

- High-performance protection of topsoil from wind and water erosion
- Support quick, healthy vegetation growth
- Protect dormant seeds during winter months
- Stabilize slope erosion to keep roads safe and clean
- Reinforce vegetation roots and stems
- Protect water quality in lakes, rivers and streams
- Conform to landscape features
- Provide easy handling and transport

PERMANENT TURF REINFORCEMENT MATS

The RollMax System of permanent Turf Reinforcement Mats (TRMs) are ideal for high-flow channels, stream banks, shorelines and other areas needing permanent vegetation reinforcement and protection from water and wind. More economical and aesthetically pleasing than rock riprap, articulated concrete blocks or poured concrete, our TRMs protect vulnerable areas with minimum maintenance and maximum durability.

VMAX® TURF REINFORCEMENT MATS

- VMax® Permanent Composite TRMs combine three-dimensional matting and fiber matrix material for all-out erosion protection, vegetation establishment and reinforcement. These products increase the permissible shear stress of many types of vegetation up to 14 pounds per square foot (0.67 kN/m²) – erosion protection equal to 36 in. (900 mm) rock riprap and concrete. VMax TRMs are available with various performance capabilities and support reinforced vegetative lining development from germination to maturity.

**VMAX® UNIQUE THREE-DIMENSIONAL DESIGN**

North American Green VMax® Permanent Composite TRMs are each designed to maximize performance through all developmental phases of a reinforced vegetative lining.

- Corrugated matting structure that lends structure and a true reinforcement to vegetation over flat net mats
- Helps create a shear plane that deflects flowing water away from the soil surface
- Incorporates fiber matrix to supplement the TRM structure’s ground cover and moisture retention properties

*GO Transit, Greater Toronto, Ontario, Canada*

During construction on a Toronto commuter rail system, a steep railway embankment required stabilization to protect a nearby pond from sediment runoff. North American Green VMax® Permanent Composite SC250® TRMs were installed to prevent surface erosion and promote vegetation re-establishment.
VMax® High-Performance TRMs (HPTRMs) utilize woven 3-D structures that are soil-filled for use in areas experiencing high stress and strain. The VMax HPTRMs are designed to provide appropriate thickness and open area for effective erosion and vegetation reinforcement against high flow induced shear forces up to 16psf (0.77 kN/m²), and with one of the highest tensile strengths on the market up to 4,400 lbs/ft (64 kN/m) our HPTRMs are excellent for increased bearing capacity of vegetated soils subjected to heavy loads from maintenance equipment and other vehicular traffic.

EROSION CONTROL BLANKETS
North American Green Erosion Control Blankets (ECBs) immediately prevent erosion and help establish vegetation. As vegetation takes root and stem systems stabilize the underlying soil, most ECBs gradually degrade. These products come in a range of weights and materials to accommodate low- to high-flow channels and moderate to severe slopes.

ERONET™ PHOTODEGRADABLE ECBs
- EroNet™ Short-Term Photodegradable ECBs are designed for moderate slopes and low-flow channels. Made of 100% agricultural straw stitched to or between lightweight polypropylene netting with degradable thread, EroNet ECBs come in short-term varieties to protect and mulch soil surfaces from 45 days to 12 months.
- EroNet™ Extended-Term, Long-Term and Permanent ECBs use heavy-duty double-netting and long-lasting coconut or permanent polypropylene fiber for protection and vegetation support for up to 36 months or longer. These products are available for extended- and long-term stabilization of steep slopes, medium- to high-flow channels and shorelines.

BIONET® BIODEGRADABLE ECBs
- BioNet® Short-Term Biodegradable ECBs are appropriate for bioengineering projects, environmentally sensitive sites, shaded areas, stream banks and shorelines. They’re made of 100% agricultural straw stitched with biodegradable thread to 100% biodegradable jute fiber netting. Available in single- or double-net varieties, they protect for up to 12 months and leave no synthetic residues.
- BioNet® Extended-Term and Long-Term Biodegradable ECBs incorporate coconut fiber stitched with biodegradable thread between biodegradable jute fiber top and bottom nets. Great for steep slopes, medium- to high-flow channels and shorelines, a choice of two products provides erosion protection and vegetation establishment for 18 to 24 months.

Yellowstone National Park, near Cody, Wyoming
Reconstruction of Highway 14 near Yellowstone created bare, dry rocky exposed slopes requiring erosion protection. North American Green® BioNet® SC150BN™ biodegradable erosion control blanket was selected for its extended longevity and ecological friendliness. Native vegetation was established within one growing season, preserving the natural aesthetics and preventing pollution of the nearby river.

Green Hills Tributary Improvement, Eugene, Oregon
Improvements along the streambanks were needed to improve drainage and flood control for the City of Eugene, Oregon. North American Green® BioNet® C125BN™ provided ample protection of the soil so the groundcover could be established on the slopes and the native grasses and vegetation could take root.