

# THE GEOSOURCE UPDATE

Geosynthetics | Erosion & Sediment Control | Stormwater Management | Hardscapes

## PROJECT HIGHLIGHT

### Pikeview Quarry Reclamation Project

**Problem:** After decades of mining operations, the City of Colorado Springs was left with a noticeable mark from the Pikeview Quarry. Known by locals as “The Scar,” Pikeview Quarry ceased operations in 2018 and now is working to turn the scar green. The goal of the project is to revegetate the Pikeview Quarry scar and restore the natural vegetation. Eventually, the city hopes to turn the area into a recreational park for the community.

**Solution:** The large 125+ acre reclamation project requires a mix of products and solutions to restore and stabilize the depleted soil. Bowman Construction Supply is supplying a variety of erosion control materials, seed, soil amendments and fertilizers to support this project.

One product in particular used on this project is Profile Products’ ProGanics® DUAL™, a Biotic Erosion Control Matrix. ProGanics ignites the nutrient cycling necessary to improve soil health for sustainable vegetation establishment while also providing the erosion control protection of a BFM effectively locking down seed and soil.

**Results:** As the project is nearing completion, we now wait for Mother Nature to provide rain to help the seed and native plants grow. By next spring, locals should see a big green surface instead of the scar.





# DESIGN CONSIDERATIONS FOR STEEP SLOPES

The best form of erosion control is sustainable vegetation establishment. But what can be done for steep slopes?

The Green Armor system begins with **Futerra® Turf Reinforcement Mat (TRM)** which provides a permanent, lofty and open matrix. It is then hydraulically infilled with **Flexterra® HP-FGM® (High Performance-Flexible Growth Medium®)** or **ProGanics Dual Biotic Soil Media**, to intimately bond soil and seeds while accelerating growth. This unique system protects against elevated water velocities and shear forces while encouraging rapid establishment and permanent reinforcement of denser vegetation. Four variations of the Futerra TRM are available. Which version is best for your project is determined by a review of project design and expected flow rates. This customized level of design safety means you can replace many hard armor and traditional TRM solutions with the more environmentally friendly Green Armor solution, with the added project benefits of:

- carbon sequestration
- oxygen production
- reduction of “heat island” effects
- mitigation of aquatic thermal pollution
- increased Total Suspended Solids (TSS) capture
- reduced carbon footprint and transportation emissions

The Green Armor System is more economical and aesthetically pleasing than concrete and rock, and replaces hard armor, as well as temporary erosion control blankets that are known for endangering wildlife through entrapment and polluting water sources with microplastics. Green Armor contributes to a healthier environment by what it adds—as well as by what it does not add—to the ecosystem. In fact, permanent turf reinforcement mats are recognized by the US Environmental Protection Agency, Army Corps of Engineers and Federal Highway Administration as Best Management Practices (BMPs) for hard armor alternatives.



After Futerra® TRM Installation



After Flexterra® Installation



After Completed Installation

## WESTERN GREEN ROADSHOW

We recently had the Western Green Roadshow visit our Bowman Construction Supply offices in Colorado.

Shannon Leech and Justin Williamson from Western Green joined Ryan Anderson from Bowman and took the Western Green trailer to customers' jobsites. In two days they served breakfast to over 100 people.

The Western Green Roadshow features a product presentation, an outdoor, hands-on field demonstration covering a variety of erosion and sediment control products and solutions, and a breakfast or lunch.

Thanks to Western Green for sponsoring these customer events! If you'd like the Western Green Roadshow to visit your office or jobsite, please contact your local technical sales rep.



## UPCOMING IECA CONFERENCES

We'll be attending the upcoming regional International Erosion Control Association's (IECA) conferences and look forward to seeing everyone there! Please join our ASP Enterprises, Quick Supply Co. & Bowman Construction Supply teams at these events.



### **2024 IECA Great Rivers Conference | October 29, 2024 | Lenexa, Kansas**

ASP Enterprises and Quick Supply Co. will have a booth at this conference. Expect insightful discussions on construction within renewable energy, innovative approaches to soil and water management, emerging techniques in sediment control, strategies for addressing legacy product remnants at sites, and navigating the regulations surrounding natural and biodegradable products. Attendees are eligible to receive 4.5 Professional Development Hours for attending the conference. [Learn more and register here.](#)

### **2024 IECA Mountain States Conference | November 11-12, 2024 | Fort Collins, Colorado**

Bowman Construction Supply will have a booth at this conference. Expect insightful discussions on construction within renewable energy, revegetation in the arid west, innovative approaches to soil and water management, integration of sustainability into infrastructure and more. Attendees are eligible to receive Professional Development Hours for attending the conference. [Learn more and register here.](#)



# ENGINEER'S NOTE



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## From the Desk of Bill Murphy, P.E.

**Take a Walk** — Friends, I have heard the same advice from a number of sources, so it is starting to resonate with me. Take a walk. If work is stressful or life is hard and you need a break, take a walk. If you struggle to focus or need to recharge, take a walk. If you wonder about your purpose or cannot identify your “why”, take a walk. The past several months I have built regular walks back into my daily routines. Morning, noon or night. During hot summer days, it is best to walk early in the morning or late in the day. Put away your phone. Don't be in a hurry. Notice the ground, the grass, the trees, the streams, the clouds or the stars. It helps me remember my “why” and appreciate our many blessings.

A little effort in taking care of our soil and our plants makes a significant impact on water quality and the overall health of our natural environment. Please let us help you improve your community's environment. Our toolbox of solutions includes soil amendments, vegetated solutions, erosion control, sediment control, water quality systems, tree soil cells, permeable surfaces and much more. Where is your favorite walking spot? What can we do to help improve it and preserve it? Give us a call. Let's go for a walk.



Flex MSE Vegetated Wall System



Citygreen's Stratavault Soil Cell System



GEOPAVE® Aggregate Porous Pavers



Profile Products Vegetative Solutions

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