

# Fontanelle Forest Channel Restoration Case Study



The Midwest's Most Trusted Site Solutions Provider

Project: Fontanelle Forest Channel Restoration

Contractor: Sudbeck Construction, Melvin Sudbeck, Owner

Location: Bellevue, NE

Salesperson: Brian Williams

Application/Solution: Installing topsoil filled Presto GeoSystems' GeoWeb with North American Green's C350 Turf Reinforcement Matting as well as S150 Straw Mat

Date of Installation: Fall 2012

Owner: Fontanelle Forest, Gary Garabrandt

case study

## Challenge

Forest property runs through steep bluffs adjacent to Missouri River in Eastern Nebraska and is in the middle of various residential developments. More than 20 years ago, a suitable solution would have been to line waterways with concrete and await the inevitable water flow damage. Severe undercutting and deterioration along with dense overgrowth of the concrete over the last 2-3 decades created ravines. Similar repairs were needed for the Fontanelle Hills Golf Course.

## Solutions

One golf course owner visited ASP Enterprises in Omaha and was introduced to and became enamored with the vegetated solution offered by the combination of a cellular confinement system and a turf reinforcement matting. The project became a priority for new property owners, who applied with NE Environmental Trust Fund for grants for these critical repairs. The City of Omaha, City of Bellevue, Papio MO River Natural Resource District, the Corp of Engineers and volunteers also participated financially. The overall funding for the project exceeded \$1 million. Contractor superintendent, Dana Jorgensen, along with ASP's Lynn Ewoldt and Gary Garabrandt made the final decision to use the soft armor system. Through 2011 and 2012, grading and various stormwater work was completed. This work was completed in drought conditions followed by an abundance of rain in Spring 2013 and thus, created difficult conditions for vegetation growth. Volunteers, 2 part-time and 2 full-time employees made the installation.

## Results

Because of severe weather conditions, minor repair work was necessary to restore drowned vegetation. It has since fully vegetated and Gary Garabrandt believes the project leaves behind a low maintenance and permanent solution, along with a proud legacy as he prepares to retire at the end of the year.



1 Overgrowth and undercutting before repairs at golf course.



2 Primary stages of grading and installation.

### Products

Manufacturers included in solutions and product:

Product: GeoWeb

Manufacturer: Presto GeoSystems

Product: C350 Turf Reinforcement Matting and S150 Straw Mat

Manufacturer: North American Green



3 Presto GeoWeb installation.



4 Turf Reinforcement Matting installation.



5 Vegetation growing through solution.

### Company Information

ASP Enterprises, Inc. and Quick Supply Co. For more than three decades, A.S.P. Enterprises and Quick Supply Co. has served the erosion control industry with integrity and expertise. We provide engineers and landscape contractors the exceptional value for their money and have grown to become the Midwest's full-line distributor of erosion-control, geosynthetics, storm water management products, wall block, landscape pavers, and drainage products.

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