

# CASE STUDY

## UNIVAR RIVER BANK

### BUNOLA, PA

EROSION CONTROL



### PROJECT SUMMARY

The Univar chemical facility is located on the bank of the Monongahela River. Increased river flow resulting from heavy rainfall was eroding away the riverbank along the facilities property. This threatened the river dock and piping infrastructure of the facility, and potential property loss was also a concern. The consulting engineer selected ARMORMAX® Engineered Earth Armoring Solution™ as the method for bank stabilization. This system was chosen because it offered significantly lower cost and faster installation than traditional hard armoring solutions, such as rock and concrete. Additionally, the vegetated solution was more environmentally friendly, aesthetically pleasing and provides water quality benefits by filtering pollutants from stormwater runoff.



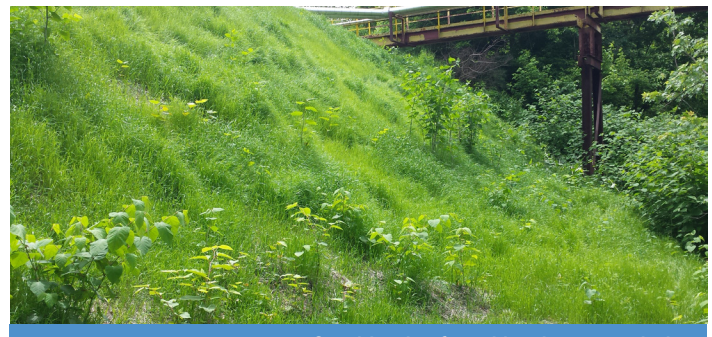
**PROBLEM** Property loss and dangerous drop off



**SOLUTION** ARMORMAX® was used to repair current damage as well as protect from further erosion



**INSTALLATION** Rapidly deployed system utilizing soil, seed and ECB to establish vegetation



**PERFORMANCE** Combined soft and hard armor solution for stabilized banks

### FEATURES & BENEFITS

- Easy, quick installation saving costs over traditional solutions
- Immediate and sustainable protection
- Reduces erosion while promoting vegetation
- Promotes infiltration of surface water
- Superior UV resistance for up to 75-year design life
- Withstands hydraulic stresses including high water flows and wave impact
- Promotes sustainable aquatic habitats with aesthetic enhancement



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P.O. Box 19269  
4019 Industry Dr.  
Chattanooga, TN 37416 USA  
PH: 800 621 1273  
FAX: 423 899 5005  
www.propexglobal.com