

CONTECH

Our Focus Today

- What is Erosion?
- Why should we care?
 - Regulations controlling site development and water quality
- What can we do?
 - Conventional Erosion Control Solutions
 - Engineered Solutions for Erosion Control

Providing solutions for every site

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Federal Regulations

- Environmental Protection Agency (EPA)
 - N P D E S (National Pollution Discharge Elimination System)
 - Permit Regulations have mandated improving...

WATER QUALITY

Pollution of waterways is the real issue

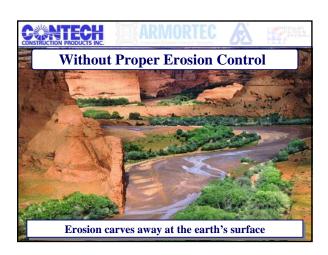
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What is Soil Erosion

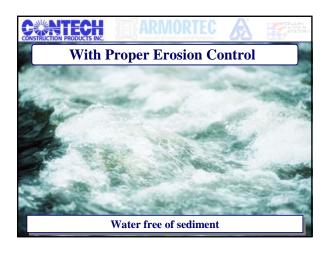
When the flow velocities and shear stresses exceed the limits of the natural **CONDITION**...the soil erosion process begins

Stress from the flow of water is the cause of soil erosion

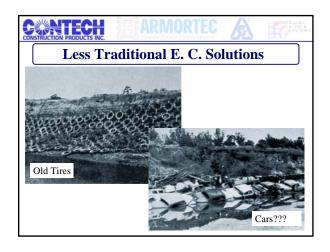


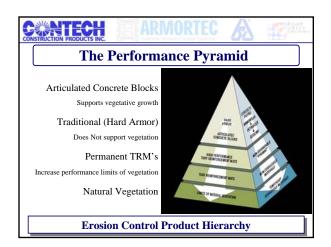


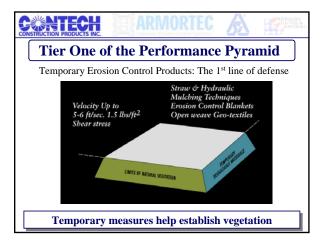


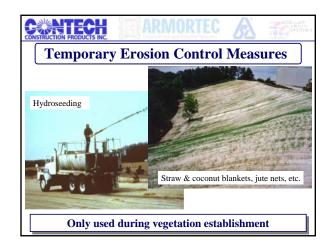


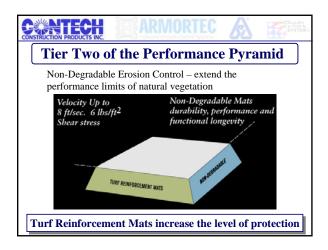


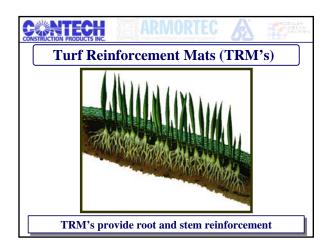


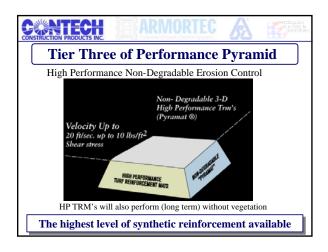
















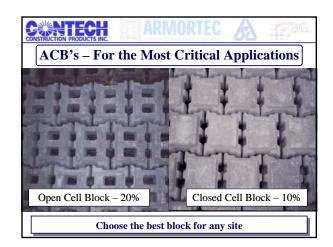


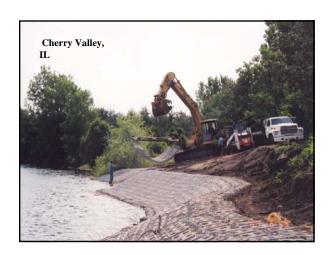


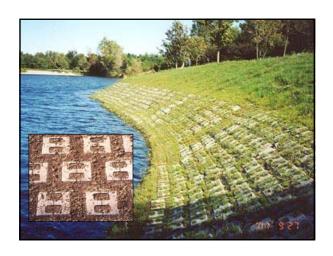


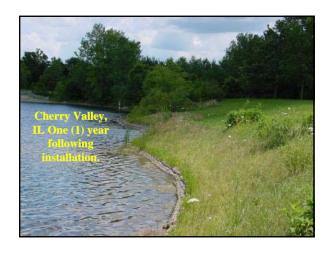
- What if the forces exceed the limits of an HP TRM?
 - Concrete
 - Soil Cement
 - Large Rip-Rap
 - Grouted Rip-Rap
- What if you want vegetation?
 - Articulated Concrete Blocks























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Gabion Systems

- BANK PROTECTION
- CHANNEL LININGS
- SLOPE PROTECTION
- RETAINING WALLS
- SHORELINE PROTECTION
- WIERS AND DROP STRUCTURES

Gabion Applications

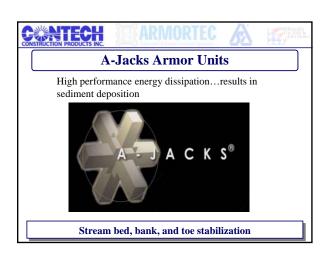


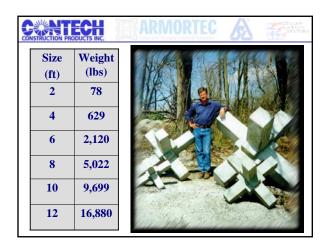
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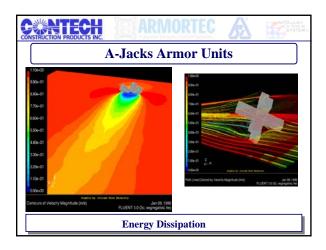
Other Solutions

- What about:
 - Stream bank stabilization?
 - Bridge scour?
 - Grade control structures?

Providing solutions for every site





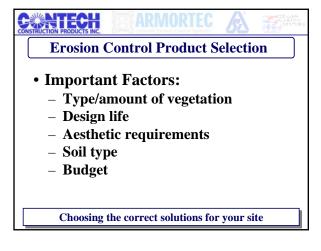














SUMMARY • Erosion Control Solutions Should: - Improve Water Quality - Provide great aesthetics - Meet government regulations - Be cost effective - Be easy to install

CONTECH will help choose the best solution for every site