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Central Florida's Soil Improvement Specialists Since 1984

Introduction

Dear Associate,

Case History
SJRWMD Spillway

First we would like to thank you for taking the time to read over our newsletter and for those not familiar with our company, allowing us to introduce ourselves.

De Neef
Waterproofing The World

As a state certified general contractor specializing in the behavior of earth materials, American GeoTechnical has become a leader in the foundation stabilization industry.

As a turnkey remediation company, we have a successful track record in developing and implementing safe and efficient remediation programs for a diverse range of sites and clients. American GeoTechnical provides customers with quality-driven solutions to foundation stabilization challenges...sinkhole remediation, underpinning, pressure grouting, soil nail systems, chemical grouting, pre-construction piling and carbon fiber technology.

HJ3
The Strongest Name In Carbon Fiber

Case History: *The St. Johns River Water Management District Spillway*

Calendar Of Events



Royce C. "Cliff" Gandy, P.E. for SJRWMD was in charge of Construction Management. American Geotechnical, Inc. of Ocala was contracted for the foundation stabilization. The decision was made to use a chemical grout injection for improved penetration and easier migration through the areas to be treated. The product was De Neef Hydro Active Cut urethane, a low viscosity, catalyst controlled hydrophobic polyurethane injection resin, injected through the floor in a curtain grout pattern at the entrance of the culvert and continuing through the structure and spillway in the appropriate pattern to achieve full coverage and stabilization.

Want to learn more about our services and products? Schedule an onsite seminar today!

The St. Johns River Water Management District (SJRWMD) experienced a settlement of a major box culvert spillway located at Moss Bluff, Florida. The second existing box culvert was in danger of imminent soil failure and threatened the new spillway before its completion. As a new 6' x 10' x 40' pre-cast box culvert was installed it was determined that waterproofing was required to bind and solidify the stone layer beneath the structure and prevent any erosion in the future. The remedies available were cementitious or chemical grouting through the floor of the culvert and into the rock bedding to provide a barrier and stabilize the rock foundation.

The Moss Bluff Sunnyhill Restoration replacement structure was opened and the risk of flooding or other damage was abated. Our thanks to WRS Infrastructure & Environment, Inc. for their confidence in American GeoTechnical on this project and also to Cliff Gandy, P.E. and Jessica Babel, P.E. of the St. Johns River Water Management District for their design, supervision and support.



(Above) Completed spillway

(Left) American Geotechnical Technicians injecting urethane into the subsurface beneath the spillway.

(Right) Spillway under construction



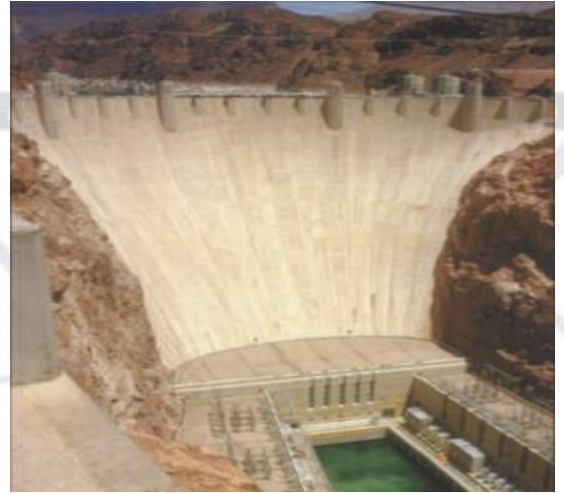
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De Neef

“The Leader In Solutions”

Water has long been a most persistent adversary of engineers and contractors. Structures move due to settling, thermal changes, and aging; these forces cause cracks and other voids allowing unwanted ground water to enter and reduce durability.

De Neef began solving construction problems more than 30 years ago, and remains the industry leader today.



Civil Construction

Create a permanent water barrier for below grade structures with the complete line of **Hydro Active®** grouts and accessories.

De Neef offers the widest variety of materials that professionals need to ensure they have the right product for their project. This extensive selection, coupled with experienced technical support assures the successful completion of your project.

Water Storage

Portable water structures of all types, from dams to treatment plants, have leakage difficulties. De Neef has more ANSI/NSF 61, DIN, and European approved products than any other manufacturer in the world. Their research and development department is constantly creating new chemistries to meet the high standards of the world's water authorities.



Introducing HJ3™, The Strongest Name In Carbon Fiber™.

American Geotechnical is pleased to announce that it has partnered with HJ3 to help pioneer the use of carbon fiber in the Southeast. Carbon Fiber materials can benefit engineering firms, contractors and clients interested in repairing or strengthening structures at a lower cost than traditional concrete and steel alternatives. HJ3 carbon fiber systems can strengthen and repair wood, concrete, brick and steel structures and is a superior to most repair methods, such as shot-crete and steel reinforcement that ads significant mass, construction time, and cost to a project.



HJ3's patented carbon fiber systems have taken the use of these materials in infrastructure to the next level. Less than 4ounces per square foot and Ten times stronger than steel, HJ3's carbon fiber is an excellent choice for pipe repair, beam strengthening, wall strengthening and a multitude of repairs ranging from residential to large industrial applications. HJ3's Carbon fiber is also cost effective with an average savings of 30 to 40% over most conventional steel and concrete repairs. HJ3's Carbon fiber has an excellent reputation for superior durability and life cycle. When you combine superior material performance with exceptional cost savings you create an attractive repair

option for your clients structural needs. Whether it is for corrosion repair, change of use projects, or strengthening you can't go wrong with American Geotechnical and HJ3's family of carbon fiber products.

