

Vegetated Concrete Block Erosion Control Mat

Vial Lake Dam • Frisco, Texas

SHOREFLEX®
Dam
Overtopping

PROJECT TEAM

ENGINEER:

Kimley Horn Engineering

JOB NUMBER:

SUPPLIER:

Premier Concrete Products, Inc.

TECHNICAL DESCRIPTION:

Product: ShoreFlex®
Underlayment: GS-50 TRM
Square Feet: 62,000
Installation Date: Fall, 2020



PROJECT DESCRIPTION:

Due to flooding and drainage concerns, the City of Frisco saw the need to reconstruct Vial Lake Dam. Reconstruction of this earthen dam commenced in the fall of 2020. The earthen dam was reconstructed, raising the elevation and lowering elevations in key locations to create an emergency spillway. **ShoreFlex®** was chosen to create a green erosion solution, providing protection on the shoreline, slopes, and culvert outfalls for the emergency spillway. **ShoreFlex®** was installed on the leeward and backside of this earthen dam providing superior erosion control with a “green effect”, in this beautiful park setting in Frisco, TX.

PROBLEM:

Designers were faced with impactful erosion concerned which could compromise the structural integrity of Vial Lake Dam.

SOLUTION:

ShoreFlex® with GS-50 TRM backing was installed in all potential highly erodable areas, such as slopes, emergency spill way, and shoreline. Mitigating potential severe erosion concerns while providing a “green solution”.

CASE STUDY