



# Emergency Spillway

Lake LaMoure, LaMoure County, North Dakota

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*Synergy With Nature™*

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**Application:** Soil Stabilization for Spillway

**Owner:** National Resource Conservation Services (N.R.C.S.), North Dakota

**General Contractor:** Sellin Brothers, Hawley, MN

**Location:** LaMoure County, North Dakota

**Area of Coverage:** 151,000 Square Feet

LaMoure County's earthen spillway had been a grass lined overflow channel for many years. In 2009 and 2010 there were three flood overtopping events each time causing significant erosion to the grass-lined channel. Finally in 2010, the N.R.C.S. decided to go with a permanent engineered erosion prevention measure.

Due to their extensive success and experience with manufacturing and installing Articulating Concrete Block (ACB) mats, Submar was chosen by Sellin Brothers to solve the erosion problem with Submar's UltraFlex™ articulating concrete mat system.

Submar's tested and proven Miramesh® GR sandwiched between the tapered UltraFlex™ system and a four inch aggregate drainage layer placed on a woven-monofilament Mirafi® FW300 geotextile was approved by the North Dakota N.R.C.S. prior to the bid.

In order to optimize the installation timeframe, Sellin Brothers utilized a 160 ton crane. When combined with a seasoned crew of four laborers an unprecedented 151,000 square feet of UltraFlex™ was installed in fifteen working days.

The result is a hydrologically stable, eco-friendly spillway which will do its job without eroding downstream backed with testing by Colorado State University.



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