



CASE STUDY MIDDLE LOGAN CREEK

Channel Stabilization
Randolph, Nebraska

PROJECT SUMMARY

Middle Logan Creek runs through Randolph, Nebraska from west to east, placing much of the town in a federally designated floodplain. Due to the flooding, residents in Randolph are required to carry expensive flood insurance. Permits for the construction of new buildings and renovations of existing ones have been placed on hold because of the location.

The area has been flooded 14 times in the past 100 years, with the last major flood occurring in 2019. The unpredictable nature of the flooding has caused a severe impact on the town.

In order to remove most of the town from the floodplain, the U.S. Army Corps of Engineers widened a 1.5 mile segment of Middle Logan Creek. After the channel was extended, ARMORMAX® was installed on the slide slopes in order to stabilize vegetation.

The end goal of the project is to carry water from future 100-year floods through the city in the channel and eliminate flooding in Randolph. The project was very successful, vegetation for the widened channel is protected and stabilized with Armormax, therefore increasing resiliency,



PROBLEM

Randolph has been flooded many times due to the narrow channel of Middle Logan Creek.



SOLUTION

The channel was widened and ARMORMAX was installed as a solution to promote vegetation and stability.



ARMORMAX®

Engineered Earth Armoring System

PropexGlobal.com/Armormax

FEATURES & BENEFITS

- Provides permanent erosion protection for up to 75 years
- Withstands both hydraulic and non-hydraulic stresses
- Ease of installation reduces time and labor costs
- Reinforces vegetation and promotes a living shoreline
- Outlasts other slope reinforcement methods yielding significant cost savings
- Promotes infiltration of surface water
- Available in green or tan to fit specific project needs
- Lightweight and easily transported into areas with access challenges



PERFORMANCE

Three months after ARMORMAX was installed, the channel was fully vegetated and showed no signs of erosion.

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PO Box 19269
4019 Industry Drive
Chattanooga, TN 34716

p: 800 621 1273
f: 423 899 5005
PropexGlobal.com

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