

MIDDLE LOGAN CREEK, NEBRASKA

Channel stabilization protects against floods



Industry: Water
Application: Channel stabilization
Location: Randolph, Nebraska
Product: **PROPEX® Armormax®**

Challenge

To remove most of the town from the floodplain, the U.S. Army Corps of Engineers widened a 2.4 km (1.5 miles) segment of Middle Logan Creek. After the channel was extended, **PROPEX Armormax** was installed on the slide slopes to stabilize vegetation.

Overview

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.



Randolph has been flooded many times due to the narrow channel of Middle Logan Creek as illustrated here

CASE STUDY

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Solution

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 **PROPEX Armormax**, therefore increasing resiliency.



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