The Challenge:

In 2011 Lake Manitoba reached record flood conditions. Snowfall was significantly higher than the normal amount and then there was a wet spring with storms in May. In the rural municipality of the Woodlands, many residents of Twin Lakes Beach lost all they had and needed flood protection quickly. Likewise in the RM of Portage La Prairie, several Delta Beach residents’ homes were compromised. Because of the timing of the authorization and funding, it was a race against time to have quality temporary structures in before winter weather.

The Solution:

In 2011 Flint manufactured 6600’ of 30’ circumference geotextile tubes and anti-scor aprons which were installed along the shoreline of Twin Lakes Beach and an additional 1750 linear feet which were installed at Delta Beach. The engineered tube fabric was sand colored with excellent frictional properties and superior UV resistance. The importance of the anti-scor apron recommended by Flint was soon realized when the lakeside anchor tubes were quickly engaged and the anti-scor apron formed a stable platform for the tubes preventing scour from undermining the structure. Flint kept an experienced work crew supplied for the speedy installation at Twin Lakes Beach in time for the crew to also install tubes at Delta Beach.

The Result:

Though the original flood protection was designed to be in place for only 6 months as a temporary solution, the tubes are still providing protection over 5 years later. In addition to protection against wind driven waves, the tubes provided an additional benefit to the homeowners in these communities. Spring ice heave is directed upward by the tubes keeping the ice from harming the homes behind. When the Delta Beach community needed the added protection of an emergency breakwater, they again chose TITANTubes™ manufactured by Flint.

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