

RIVER TRAINING FOR GRIJALVA'S RIVER PROTECTION "LA MANGA" SECTION 2, VILLAHERMOSA, TABASCO.

HYDRAULIC WORKS

Product: MacTube® W1 7.10

Problem

At Villahermosa, there are strong erosion problems at various points along the banks of the Grijalva river, that put at risk the population of the colonies in these points. It is necessary to provide protections that stop the evolution of these failures.

In addition there is the problem of having extremely soft soils and very susceptible to erosion.

Solution

The National Water Commission developed projects of longitudinal protections based on sand bags.

However, there is a point in the river bed where there is a pit that needs to be filled to have a stable surface where to displace one of the sand bags protections.

It was proposed to place small geotextiles filled with sand in dry conditions and placed with crane. This, in order to improve efficiency and reduce costs.

For this project we used 85 pieces of MacTube® of 6.8 m of perimeter by 7 m of length.



Fig 2. MacTube® W17.10



Hydraulic Works

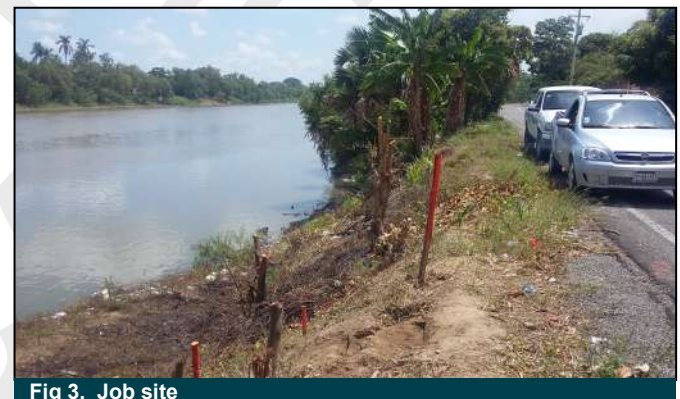


Fig 3. Job site



Fig 1. MacTube® W17.10



Fig 4. Fault on the right bank of the Grijalva River

Client:

CONAGUA TABASCO

Main Contractor:

INFRAEXT DE MÉXICO, S.A. DE C.V.

Designer:

S.O.E.

Used Products:

MACTUBE® W1 7.10 6.8X7

Construction Date:

SEPTEMBER-NOVEMBER 2016



Fig 5. Preparation site for MacTube® W17.10 before being filled



Fig 6. Site ready for material placement

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Fig 8. Filled and drained process MacTube®



Fig 7. Machinery used in installation



Fig 9. Drained MacTube® 1



Fig 10. Drained MacTube® 2