

Gascoyne River Bridges



VITAL LINK CONNECTING REMOTE COMMUNITIES

Two new precast concrete bridges provide a safe and reliable crossing in all but extreme flood events for pastoralists, residents, tourists and the mining industry in the Upper Gascoyne region of WA. The Gascoyne River Bridges are a vital improvement that will link the Gascoyne with the Pilbara, providing access to Carnarvon and the rest of the state.

PRECASTER ENGAGED EARLY FOR SOLUTION

Humes' Technical Services team worked with the principal contractor during the early stages of the project to develop a solution that would facilitate quick and safe installation of the bridge prior to the onset of the wet season. Humes proposed use of its proprietary HumeDeck® product which satisfied all the engineering requirements.

GASCOYNE RIVER BRIDGES

Project Value
\$5.7 million

Location
Gascoyne Junction, WA

Precaster
Humes

Builder
Marine & Civil

Engineer
Jacobs

Client
Shire of Upper Gascoyne



TECH SPECS

Products supplied

87 HumeDeck® (double reinforced unstressed) bridge units

Typical size

12m long x 2.4m wide

Application

Two bridge crossings of 72m and 436m

Colour

Grey, off-form

Design requirements

A suitable wearing surface; no need for additional topping

Duration

Design, manufacture & delivery in 3 months

DURABLE SOLUTION DELIVERED ON TIME

Constructed using HumeDeck®, the two Gascoyne River Bridges were completed on time prior to the wet season. They are an important part of everyday life for the local community that will require minimal maintenance and will withstand floods for many years to come.

CLEVER ENGINEERING DESIGN

Humes' design engineers proposed an in-situ stitch joint between adjacent deck units to ensure a continuous profile across the deck width. The bridge deck dowels were designed to resist flood uplift forces as well as lateral flood and debris impact loads. Vent holes in the deck slab ensure entrapped air will be ventilated from beneath the deck.



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