Providing Civil Engineering to the Mining Industry

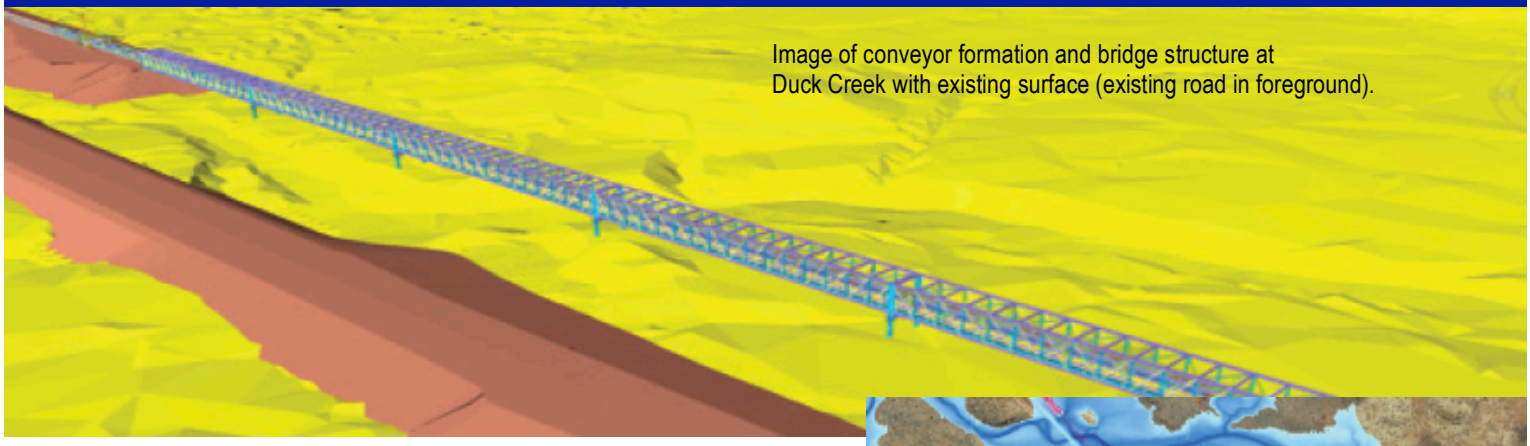

Image of conveyor formation and bridge structure at Duck Creek with existing surface (existing road in foreground).

Axiom Consulting Engineers were engaged to work side by side with a mechanical engineering firm who were designing a 10km conveyor belt system for an iron ore mine in northern West Australia. The mining company had decided it was more economical to transport the mined ore to their processing plant by overland conveyor as opposed to road transport.

Works involved the Civil Engineering design of the earth formation upon which the conveyor is built including vehicular access and road linkages, a number of structures that are required to cross existing waterways, design of the crusher and head end earth pads with associated roads and sedimentation ponds.

Further, a 2D flood model was produced to ensure the overland conveyor was free from flooding in 50yr event. The flood model covered an area of over 300 square kilometres.

Collaboration with the mechanical engineers throughout the project was detailed and frequent. With the use of online viewing software, models, plans and drawings were able to be discussed and altered in an efficient manner without the need to travel between our offices (over 100km apart).

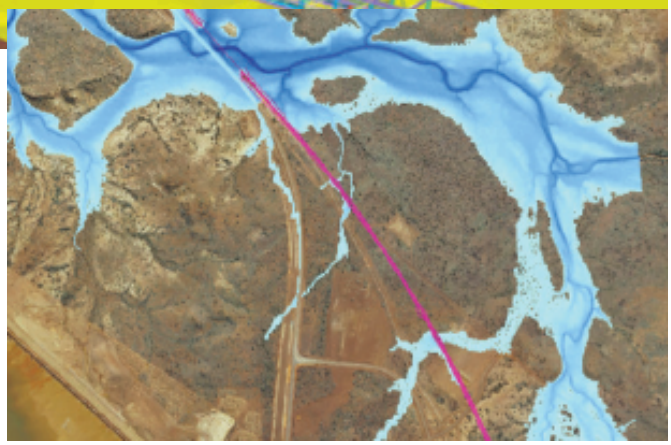

Image of 50yr flooding over aerial image (Duck Creek near top of image). Conveyor shown in pink lines.

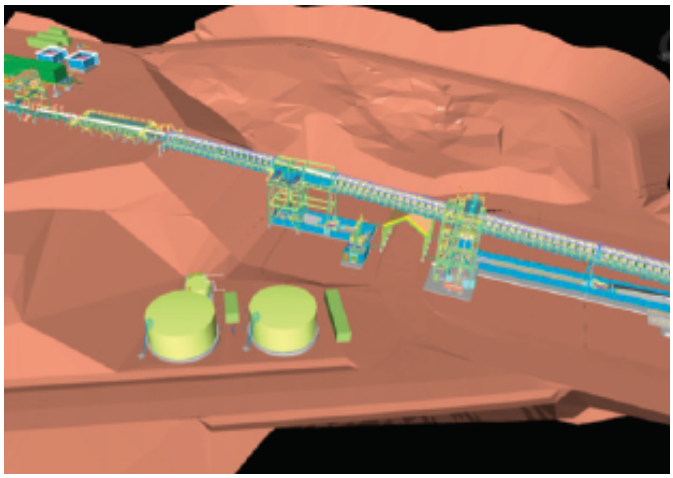

Image of the crusher and discharge pads, access roads, conveyor and associated structures

AXIOM CONSULTING ENGINEERS

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Plan + Design + Develop

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