

“Where will our knowledge take you?”

Oakajee Port Development

Oakajee Port and Rail

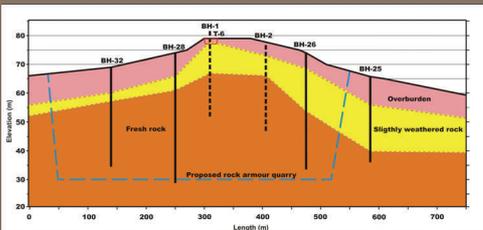


“ BMT JFA assisted in the development of a cost effective and robust design outcome for the project, which led to the Client being named as the successful proponent for the port development. ”

aspects of the port marine development from concept design through to the completion of a detailed Bankable Feasibility Study (BFS) which included detailed design of the all aspects of the port including dredging and reclamation, breakwaters and seawall structures.

BMT JFA Role

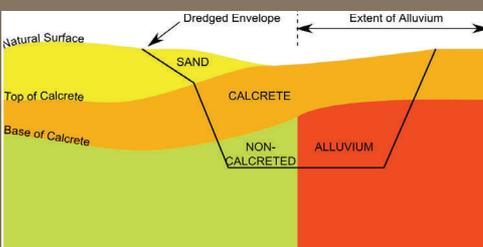
- Overall management of all marine studies and investigations for the project, including all wave monitoring, design wave studies, onshore armour quarry and offshore geotechnical investigations
- Port planning and layout, including managing design vessel simulation studies
- Breakwater design studies, including all stages of design, overseeing physical model testing (both 2D and 3D) and development of all detailed design documentation
- Assess dredging requirements and material dredgeability as well as all land reclamation works and development of all design documentation
- Production of all technical documentation for the construction tender packages
- Technical input and advice.



BMT JFA have had a long history of involvement on the project, spanning back to the mid-late 1990's when the project was initially proposed. In 2007, Oakajee Port and Rail (OPR) were one of two proponents for the development of a new railway and port at Oakajee, 24 km north of Geraldton.



BMT JFA were asked to provide a technical review of the breakwater and dredging aspects of the project and subsequently recommended a number of design improvements to lower the cost and improve technical robustness of the project.



OPR were subsequently nominated as the successful proponent by the WA State Government in 2008. BMT JFA were appointed by OPR as the marine port consultant.

BMT JFA's role in the port design included: the development of a causeway and breakwater with a total length of 2.5 km; dredging of approx 2.5 Mm³ of coastal limestone; and the development of both offshore and onshore land reclamation areas.

BMT JFA assisted OPR with all

Services & Expertise Provided

- Port planning and channel design development
- Coastal dynamics & modelling
- Breakwater and dredging design and development
- On-site investigations.

Location

Oakajee, Western Australia

Date

2007 - 2011