



# CASE STUDY

## PROJECT DETAILS

### T155 - IRON ORE CAR DUMPER - PORT HEADLAND

#### CLIENT

FMG  
EPCM - Worley Parsons

#### COMMENCEMENT

May 2011

#### COMPLETION

June 2012

#### PROJECT VALUE

56.0 Million

A Constructability WA case study: One of many successfully completed projects over our 35 year history in the Civil Construction Industry.

#### Scope of Works/ Contract Objective

- > The scope of works entailed construction of the T155 Car Dumper- vault level, apron feeder level, trunion level, rail drive level, ingo and outgo foundations and double conveyor tunnels
- > The contract objective was to construct within budget and ahead of the approved baseline programme

#### Construction Quantities

- > 720 c/m- construction of blinding installed
- > 18718 sq./m structural formwork installed including false work and supports
- > 2665 tonnes reinforced steel installed
- > 15,402 cu/m structural concrete poured

#### Safety Performance

- > 50-75 personnel onsite during the project - 215,300 man hours
- > 1 lost time injury
- > 1 medically treated injury
- > Lost time injury frequency rate: 9.29

#### Environmental Performance

- > No environmental incidents reported
- > 10 Audits completed to 100% compliance

#### Project Challenges

- > Short duration for mobilisation to Site - 3 weeks
- > Craneage and Logistics - flexibility of sequence and program of works to align with client requirements
- > Wet season disruption to works progress on three separate occasions
- > Weather affected construction program impacting on-site with a greater interface with other contractors

#### Project Achievements

- > Contracted works completed 4 weeks ahead of schedule
- > Contracted works completed within the allocated budget