

# South Flank Rail Duplication and Stockyards- CPB



**Case Study**  
GCM19-05

**Year**  
2019

**Client**  
CPB Contractors

**Site/Location**  
South Flank Project

**Region**  
Pilbara, Western Australia

**Scope**  
Rail Duplication and  
Stockyard Excavation

**Total Production**  
437,114m<sup>3</sup>

**Rock Type**  
Iron Ore & Waste/BIF  
material

**Rock Hardness**  
40-80 MPa

**GET Consumption**  
Average of 36.6 bcm/pick

**Production Rate**  
360BCM/hr

## PROJECT SUMMARY

Global Civil and Mining (GCM) were contacted by CPB to assist with their large scope of works at BHP's Mining Area C and its new South Flank mine. CPB had been contracted to deliver on a number of key project areas, including the rail duplication and extension to the existing stockyard which would host the largest reclaimer in the world upon completion.

GCM's equipment and service has a number of key aspects that were essential in securing the work, including

- ⚙ The ability to produce excellent backfill material directly from the machine without additional processing was a critical aspect for CPB, who were able to condition the material and place into fill areas directly.
- ⚙ An exceptionally low-impact process that allows the machine to work alongside existing infrastructure, most notably the MAC ore train which was in full operation 24 hours a day.
- ⚙ A rapid mobilisation and start-up process that ensured the machine was onsite, supported and producing.
- ⚙ An accurate, GPS-guided milling process that ensures the final design is on-spec, with no requirement to over-excavate and backfill to ensure stability.

GCM's portion of the works at the South Flank Project were completed in November 2019, and GCM are excited to have contributed to this new large scale project for BHP.

Global Civil and Mining  
4 Dampier Road  
Welshpool WA 6106  
(08) 9258 3900  
[www.globalcivilandmining.com](http://www.globalcivilandmining.com)