



Gold Processing Plant

PROJECT REPORT

CLIENT: OCEANA GOLD CORPORATION, NEW ZEALAND



CONCEPT DESIGN MANUFACTURE INSTALL COMMISSION OPERATE

INNOVATIVE SOLUTIONS TO INDUSTRY



The Situation

In mid 2006 Brightwater were awarded contracts for the structural, mechanical and piping supply and installation scope for the new gold processing plant at Oceana Gold's Globe Progress Gold Mine at Reefton, New Zealand. Brightwater had previously been awarded the fabrication contract for all tanks, chutes and processing vessels which included a 20m diameter clarifier.

The project was designated as "Fast Track" with a very tight site erection and installation period of 6 months.

The installation scope included the erection of 150 tonnes of structural steel, two site-build tanks (9m diameter x 10 m), installation of tanks, launders and chutes, (installation of pumps), air plant, cyclones, floatation cells, installation of a SAG Mill (5.2m diameter) and the fabrication and installation of 15,000m of piping (20mm to 40mm nb, HDPE, CS, SS and Rubber Lined).

The Globe Progress Mine is located at Reefton on the West Coast of the South Island, at an elevation of 550 metres above sea level and an average rainfall of 2200mm per annum.

The Solution

Brightwater mobilised to the Globe Progress Site in late September 2006. Local sub contractors for cranes, scaffolding and transportation made up an essential part of the team at site.

Imported mechanical plant deliveries were consolidated at Brightwater's workshop in Nelson before transport to site.

To fast track the piping fabrication Brightwater produced spool drawings for the piping layouts and employed a specialist piping engineer to coordinate this process. The piping engineer also determined pipe support types and locations from the piping layouts and also directly at site.

Key Features

- Fast Track Project in remote location.
- Consolidate offshore procured items.
- Coordination between Site and Fabrication Manager for platework and tanks.
- Assembly and completion of client supply plant.
- Installation of heavy rotating plant.
- Site fabrication and installation of piping and pipe supports.



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