

# WA Engineering Excellence Awards

## Resource Development

WINNER

### Boddington Gold Mine Expansion Project

AKER SOLUTIONS AUSTRALIA PTY LTD AND CLOUGH LIMITED | NEWMONT MINING CORPORATION

Recognised as an engineering feat, Newmont's Boddington Gold Mine represents a revolutionary approach to gold and copper production, employing grinding equipment never before used in the gold mining industry.

The project is the culmination of 10 years work and the contribution of over 12,000 individuals. At peak production Boddington Gold is destined to become one of Australia's largest gold producers.

HIGH COMMENDATION: CAPE LAMBERT UPGRADE

SUBMITTED BY: RIO TINTO IRON ORE | SINCLAIR KNIGHT MERZ



## Infrastructure and Building

WINNER

### Condor Tower

PRITCHARD FRANCIS PTY LTD

Condor Tower pushes the boundaries of building adaptability and sustainable design by demonstrating how obsolete structures with remaining design life and inherent strength can be recycled and transformed.

This project was also announced as Overall Winner. For more information please refer to page one.



## Products and Manufacturing

WINNER

### Mobile Mining Unit Plant (MUP)

RCR MINING | CLIENT – ILUKA RESOURCES | STRUCTURAL DESIGN SUPPORT – SINCLAIR KNIGHT MERZ | ELECTRICAL DESIGN – OVERFLOW INDUSTRIAL (OFI)

The innovative MUP incorporates an ore recovery and full in-pit primary processing unit and sophisticated relocation system. The advanced technology for the customised hydraulically driven track-module enables the 1000 tonne machine to raise and drive itself to the next mining position via remote control.

Delivered within nine months with an outstanding incident-free safety record, the key to the project's success was passion, innovation and team work.



## Environment

WINNER

### A NATURAL BIOLOGICAL REMOVAL SYSTEM FOR OXALATE

ALCOA WORLD ALUMINA

Alcoa's Technology Delivery Group has developed, installed and successfully commissioned a biological system which degrades oxalate, an impurity in the Bayer process, to sodium carbonate which can be re-used in the process.

This exciting new technology provides a number of significant environmental and cost advantages over traditional oxalate removal processes including reduced energy use and hence reduced greenhouse emissions.

HIGH COMMENDATION: THE ADVANCED SOLAR THERMAL INITIATIVE - ENGINEERS DRIVING CHANGE SUBMITTED BY: WORLEYPARSONS



## Engineering for Regional Communities

WINNER

### The Narngulu Wastewater Treatment Plant

WATER CORPORATION

An innovative wastewater treatment plant constructed by the Water Corporation at Geraldton has equipped the city to expand in its role as a hub for the mid west region's expected strong resources-driven growth.

The 'hybrid' plant incorporates cutting edge technology and other innovations that make it a highly useful new option for water industry planners while providing some important environmental benefits.

HIGH COMMENDATION - THE KIMBERLEY ECI GREAT NORTHERN HIGHWAY PROJECT

TEAM SAVANNAH | MAIN ROADS WESTERN AUSTRALIA | AECOM | BGC CONTRACTING PTY LTD LAING O'ROURKE AUSTRALIA



## Management of Engineering

WINNER

### Berth 10 Reconstruction

THIESS GEORGIU JOINT VENTURE | FREMANTLE PORTS | AECOM

The reconstruction of 52-year-old Berth 10, part of Fremantle Port's Inner Harbour Deepening and Berth Works Project, provided the unique challenge of constructing a new wharf deck whilst simultaneously demolishing the old deck structure in a working port environment.

Delivered using an Early Contractor Involvement method, the project's successful completion with no lost time injuries or disruption to port operations reflects excellence in the management of engineering.



## Innovation and Development

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## Small Company Projects

WINNER

### MetroCount Mc5712 Timing Analysis System for Signalised Intersections and Railway Crossings

MICROCOM PTY LTD T/AS METROCOUNT | MAIN ROADS WESTERN AUSTRALIA

The recently released MetroCount MC5712 reports driver behaviour at intersections and level crossings, joining MetroCount's family of traffic management products designed and manufactured by MetroCount in Fremantle, Western Australia.

The MC5712 identifies problem intersections rather than just responding to traffic accident statistics. According to MetroCount CEO Mike Kenny, "There isn't another product in the world that delivers intersection data of this nature."

