

# AUSROCKS PTY LTD

CONSULTING MINING ENGINEERS

ABN 64 056 939 014

## AUSROCKS NEWSLETTER No 12 Summer 2012

### Ausrocks Relocates

In early December, Ausrocks will relocate from Toowong to 17/71 Jijaws St Sumner Park, well above the 2011 flood level and only 12 minutes distant by car from the Toowong office and, when the Legacy Way is completed in late 2014, less than 25 minutes travel time from the Brisbane Airport. 40% of this journey will be by tunnel giving safe and reliable access.



### Ausrocks Sumner Park Office

The relocation is part of overcoming our shortage of space at Toowong, as well as having a warehouse to store our dust monitoring stands, material samples from quarry resource drilling and bulk sampling as well as equipment associated with our consulting business. The 60 square metre mezzanine office will have desks for 5-6 employees and there is sufficient car parking space for client visitors and the Ausrocks utility. You are welcome to call in to the Ausrocks office any time – best to phone Alan (0402 445 418), Adebayo (0450 320 600) or Carl (0404 778 394).

Ausrocks would like to welcome our Associate Engineering Geologist, Josef Major who has been a Senior Associate since September 2012. Josef provides engineering geology services for projects relating to quarry material and other construction materials and to some extent provides the field expertise in drill logging and field geology previously provided by our great friend and mentor John Siemon to allow John to live a more “sedentary” life !!!!.

On behalf of Ausrocks Pty Ltd, I would like to take this opportunity to wish our clients and friends a safe and happy Christmas and a very prosperous year in 2013.

**Alan, Robertson, Director**

### Changes to QLD Legislation and their effect on the Quarry Industry

Following the change in QLD state government earlier this year there has been a few changes to Environmental Legislation. These include the Sustainable Planning and Other Legislation Amendment Act 2012 (SPOLA) and the Environmental Protection (Greentape Reduction) and Other Legislation Amendment Act 2012 (Greentape Reduction Project). I thought I would discuss my interpretation of these changes and how they will affect some existing quarry operations as well as new quarry operations.

The SPOLA amendment removes the requirement for resource entitlement to be obtained prior to the submission of a Development Application (DA). A resource entitlement is required when carrying out development for state resources, including operations in a creek bed or on forestry leases. Previously council could not accept a DA unless a resource entitlement was obtained by way of a Quarry Material Allocation Notice or a Sales Agreement. By removing this requirement it allows council and other referral agencies to begin assessing the DA whilst resource entitlement is obtained, which should reduce DA processing time.

The Greentape Reduction Project is set to come into effect next year but includes several key changes to the quarrying industry. This project has not been finalised but there are a number of Environmentally Relevant Activities set to be deleted including:

- ERA 6 (a) Asphalt Manufacturing <1000t/yr;
- ERA 8 (3a) chemical storage (fuel >10,000L);
- ERA 21 Motor vehicle workshop operation (for servicing more than 10 site vehicles);
- ERA 33 Crushing, Milling, Grinding and Screening >5000t/yr (concrete re-processing);
- ERA 43 Concrete Batching >200t/yr

The other aspect of the Greentape Reduction is assigning ERA's to Assessment Tracks, which essentially splits the types of applications into a Standard Application, Variation Application or a Site-specific Application. Along with the development of 'Standard Conditions' there is the opportunity for significant fast tracking of new quarry applications <5,000t/yr and <100,000t/yr as well as increasing from one threshold to another. If you would like further information on these changes and how they could impact on your development please contact the office.

# AUSROCKS PTY LTD

## “Clever Innovation in the Mining and Quarrying Industry”

### Engineering Challenges at Mount Coot-tha.

Right at the doorstep at the CBD of Brisbane lies one of the most efficient quarry operations in Queensland, Mount Coot-tha Quarry. This quarry has operated on the following basic key equipment to reach its production targets - **a contract production drill (ECM 660), a Komatsu PC 450 Excavator (Rosenlund) with rock breaker and production bucket, two CAT 769 D's and a water truck in the quarry itself, fixed Primary, Secondary and Tertiary Crushers and associated Screening Plant in the Processing area as well as a CAT 980 Loader and two contract Sterling 12t rigid body trucks for handling product and stockpiles.** This would be one of the shortest equipment lists, if not the shortest, for an equivalent sized quarry in Queensland. The quarry is constrained laterally by its urban surrounds and now vertically by the placement of 2.6 Mt of Tunnel Boring Machine (TBM) spoil from the Legacy Way Project into the southern end of the quarry from September 2012 to June 2013. This has provided some considerable engineering challenges to the quarry operators, Brisbane City Council and the Transcity Legacy Way team, as well as the associated engineering consultants and sub-contractors. These challenges include construction of the Conveyor Tunnel from the western portal side to 30 mRL in the quarry, shared quarry operations and TBM spoil placement in a relatively confined area and in a significantly less timeframe than originally scheduled, a major short term quarry re-design and the construction of a smaller quarry sump with increased pumping facilities located on a floating pontoon. The excavation of the new sump and the construction of the floating pontoon has been completed under a very tight schedule. The process has involved the coordination of Quarry operations and maintenance as well as sub-contractors and the Transcity personnel placing the TBM spoil. The challenge has created a great culture of innovation, safety, pride and co-operation within the quarry.



Newly Installed Floating Pontoon and Pump Lines

### D'Aguilar Gold Meets Evaporation Targets

Congratulations to D'Aguilar Gold for achieving the Mandatory Reporting Level (MRL) at the Shamrock Tailings Dam in time for the 2012/2013 wet season. Under Greg Runge, General Manager for D'Aguilar Gold (DGR Global), Site Caretaker Mick Chapman has built 3 evaporator fans, installed electrical control boxes (Max Ellis from Murgon) and installed a diesel pump with 68 spray evaporators. Total net evaporation for this focused programme from 1st the start of September 2012 to end November 2012 was 720mm or 55mm/week - well in excess of the natural evaporation for that period. Well done Mick!!



Evaporation Fans in Action at D'Aguilar Gold Mine

### News of Ausrocks Employees.

**Kayleigh Jones** (Environmental Planning Student, University of Queensland) returns from Manchester University to commence her third year. Kayleigh will continue with Ausrocks as a part-time employee.

**Terry Dube** has gone to BMA Moranbah for Vacation Experience as he moves into his final semester for his Mining Engineering degree in 2013. Check out the Ausrocks Newsletter and Conference Paper on Terry's Thesis on [www.ausrocks.com.au](http://www.ausrocks.com.au)

**Jonathan Larkman**, a Civil/Geotech student at the University of Queensland, replaces Terry whilst he is at Moranbah. Jonathan enters the fifth year of his studies in 2013 to take on the newly offered Civil/Geotech major.

**Peng Li** should graduate in Mining Engineering from the University of Queensland this year and take up employment with Redpath Mining.



**Ausrocks will be closed  
from 21 December 2012 to 7 January 2013. During  
this period Alan Robertson and Adebayo will be  
available for emergency callouts if required**