

AUSROCKS NEWSLETTER No 16 Spring 2014

Welcome....

to the Ausrocks Spring 2014 Newsletter. Ausrocks welcomes Aaron Vik to the team. Aaron assists in the workshop and is currently working on the Ausrocks "Caged Rock" gabion project, producing gabions for civil engineering and landscaping use. For more information, see the Ausrocks gabion article prepared by Nick Virisheff.

Ausrocks Goes Solar.....

The Ausrocks Office at Sumner Park has gone across to solar power. The three phase 10kW unit, installed by SAE Solar, has the capacity to produce 35kWH per day in winter and 45kWH per day in summer. Since 95% of the office power consumption is during the daytime, the power needs of the office will be provided almost completely by the solar installation. Payback on the system, as a result of power cost savings, will be four years.

Need Help With Town Planning?

Wendy Wood is the Senior Town Planner for Ausrocks. Wendy is a key player in the Ausrocks team and is located at Buderim on the Sunshine Coast. Wendy has recently completed a wide range of town planning assignments. These include:

- Unit developments in Brisbane and on the Sunshine Coast.
- Approvals for workshops, storage facilities, workers camps.
- Investigations into subdivisions.
- Preliminary approvals for rezoning, structure plans and sector plans.
- Advice on land use planning.

If you need any assistance in town planning, do not hesitate to contact Wendy.

Upcoming Conferences

Ausrocks will be forwarding a representative or representatives to the following conferences in the next few months.

Institute of Quarrying (CMIC) Conference 3rd-6th September, Brisbane

Australasian Tunnelling Conference, 17th-19th September, Sydney. Alan Robertson is presenting a paper.

Geotek 2014, 5th-7th November, Sydney. Alan Robertson is presenting a paper.

Ausrocks is also a foundation sponsor of the ATS Golf Day to be held on Friday 10th October. All proceeds go to the Royal Brisbane Womens Hospital.

Regards Alan Robertson, Director Mob 0402 445 418

Update – Ausrocks Gabions

In our last newsletter we spoke about our first steps into the world of Gabion Baskets and particularly the ambitious design idea for a Forkliftable Gabion that could be pre-filled at the quarry and then trucked to site. After many trials and design tweaking, we are happy to announce that our efforts have paid off and that we are now able to offer the product for sale to the public. Our gabion bases are folded by AAA Engineering at Upper Caboolture. Sizing can be customisable depending upon the application and desired rock type to be used, but there are two standard sizes that we are producing:

- 75x75mm mesh (4mm) – 1200x450x450mm
- 50x50mm mesh (4mm) – 1000x500x500mm (pictured below)



We have also been letting our imaginations run wild with Gabion designs for backyard landscaping purposes, and now we are proud to present this division of our business as "Caged Rock".

CAGEDROCK 

We have recently placed demo models of our sandstone bench seats (similar to the one pictured below) and Forkliftable Gabions into a number of landscaping and quarry yards, as well as installing some customer orders, and interest is steadily building. We can also work with you and your landscaper to custom design your Caged Rock backyard paradise.



If you are interested in our Gabions for your home or business, please contact either Alan or Nick in the Ausrocks office on (07) 3376 6839 and watch the updated Engineering section of the Ausrocks website for developments. www.ausrocks.com.au

Note: Ausrocks has donated a gabion seat to the Australian Institute of Quarrying Education Foundation Brunch and Auction on 6 Sep 2014.

Tunnelling News

Underground Space and the BAT Tunnel

As mentioned in our Summer Newsletter, the new Bus and Train (BAT) proposal is a major technical and innovative breakthrough for Queensland. Excellent presentations on the BAT Tunnel have been given to the Brisbane Australasian Tunnelling Society (ATS) and the local Institute of Quarrying. One of the innovative aspects of the BAT project is the flexibility of the project to integrate commercial ideas at the station Concours levels and other areas such as the portals. In the mid 1990s Alan Robertson proposed an underground commercial precinct under Albert Park as part of the Roma Street Parklands Redevelopment project. This precinct with multiple portal access from rail level at the embankment beside Albert Street was designed with direct access to the Royal Brisbane Hospital for emergency services vehicles, as well as a bus tunnel (which later became the Inner Northern Busway). The major use was planned for car parking, car storage, archive storage and self-storage. At the time the concept was considered "too forward thinking" for Brisbane but 20 years later the BAT tunnel development with 3 combined bus and rail underground stations at Woolloongabba, George Street and Roma Street offers a new opportunity for the re-consideration of this concept. Opportunities include:

- Underground car parking
- Underground car storage
- Archives storage underground
- Lift access to Wickham terrace (from Roma St Station)

Ausrocks has participated in the new Brisbane City Plan 2014, particularly with the introduction of commercial underground space. Council undertakes planning activities from time to time that inform or re-inform the City Plan. A current example of this is the City Centre Master Plan (CCMP). The CCMP process is the right context to consider options for how the city centre develops including a number of matters that ATS are interested in. Suggestions regarding pedestrian connectivity and movement as well as underground spaces for commercial and other activity are all possible considerations that a CCMP process is best suited to consider. Once such a process as the CCMP concludes, the outcomes from it are used to inform a new City Centre Neighbourhood Plan and the City Plan is amended accordingly.



Underground Car Park and Office in Kansas Limestone

Ausrocks Prepares for 2016 Endeavour Rally

One of Ausrocks Director Alan Robertson's bucket list items is to participate in the Endeavour Charity Rally. The 2016 rally is to be targeted using a specially built Renault 10 from the Ausrocks workshop. The Ausrocks vehicle is being rebuilt from the ground up and includes rear spoiler, four wheel disc brakes, Gotti wheels, front radiator and independent coil suspension, raised for increased ground clearance. Assistance in the vehicle construction will be provided by French Car Care, Sixties Rust and JLS Auto upholstery.

Safety requirements for the vehicle include:

- A speedo or tripmeter that reads to at least one tenth of a kilometre
- Fire extinguisher that is accessible and firmly mounted
- A minimum 5 litres of drinking water for each crew member
- A Snatchem strap and 4.7t rated D shackle(not tow rope or chain)
- Mud Flaps of stout material for each driving wheel (Mud flaps must be at least 100mm off ground when vehicle is fully loaded)
- 20 litre (legal) fuel container full at the beginning of each day
- Fitted UHF radio in working order
- An orange rotating light on the roof of the vehicle for use in dusty conditions - must be unobstructed and easily visible from the front and rear (red, green, blue and strobe lights not allowed)
- Sleeping gear for each crew member
- Seat belts must be fitted to the vehicle for each crew member and worn at all times (full harness seat belts are highly recommended for rally cars)
- Good quality first aid kit carrying sufficient materials for remote travelling - seek advice from your local first aid supplier or ambulance station
- Two reflective triangles, safely stored de-ditching shovel
- Laminated windscreen
- Rear facing car number - must be clearly visible on the right side of the car. Clearly visible forward facing car number on the top passenger side of the windscreen
- A space of at least 600mm X 450mm must be kept clear on each front door or an area approved by the organisers for the official door signs
- A Queensland Transport modification plate must be fitted for any major modifications to the vehicle. e.g. roll cage, extra/altered seats and seat belts, extra/altered fuel tank.
- An Australian Road Atlas or maps covering the entire course.

Watch the Ausrocks website for progress of the vehicle construction over the next 12 months!



Renault Car Park at Ausrocks Office

AUSROCKS PTY LTD

“Clever Innovation in the Mining and Quarrying Industry”

Advances in Mobile Crushing and Screening

The quarry industry has been using mobile crushing and screening equipment more and more lately. No longer is this equipment seen as just backup gear or temporary ‘start-up’ equipment until the fixed plant gets installed. Several advances in the design of these machines have seen mobile crushing and screening equipment more accepted and utilised throughout the quarry industry. Some of these advances include:

- *Pre-screening to reduce un-necessary crushing, clogging with wet material, thus removing fines as well as increasing overall throughput,*
- *Integrated post-screening to provide a ‘full service’ in one machine,*
- *Recirculating conveyors (incorporated with post-screening) to reduce double handling,*
- *More efficient drive systems leading to smaller engines to reduce fuel consumption,*
- *Strategic design (handrails, ease of access) to increase safety during maintenance and servicing activities.*

Most new mobile crushing and screening machines coming onto the market are now incorporating some of these features to help them to compete much more competitively with their fixed counterparts.

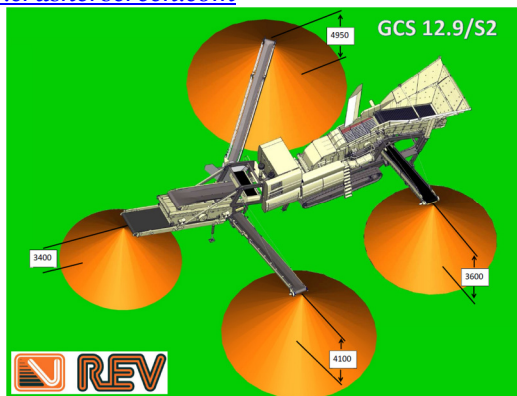
One machine that has caught our eye is the REV GCS 12.9/S2 mobile impact crusher. This machine runs a Cat C9 engine, has an apron feeder which will excel over vibrating feeders in damp and sticky raw material with a feed size of 750-800mm, a 2 deck 2.3x1.25m scalper screen, a 1.2x0.9m impact chamber and a 2 deck 4.5x1.5m vibrating screen with recirculating conveyor. This is truly an all-in-one machine that can produce up to 4 separate products in the one process. This would allow small to medium quarries (50-200kt/a) to use a single machine to produce the majority of their roadbase or aggregate products.

If you would like to know more about the REV range of crushing and screening gear, contact Crusher Screen Sales & Hire:

John Anderson: 0424 181 056

Email: info@crusherscreen.com

www.crusherscreen.com



Interesting Signs and Safety Procedures



Not so much a sign but this “safety initiative” caught our eye.



If you have a funny sign or a photo of a involving safety (or if it is just funny) that is just not quite right, please send to:

Alan.Robertson@ausrocks.com.au

For more information:

Visit: 17/71 Jijaws St, Sumner Park, Q4074

Ring: (Office Hours) 07 3376 6839

Ring: (After Hours) 0402 445 418

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