

Flagstone Estate – Earthworks



Flagstone Estate is a new community well under construction 35km's South West of

Site conditions in this area are difficult to undertake construction work in, due to the

crushing and screening to meet the engineer's specification, which would have added extra costs, as well as restrictions due to nearby residents who had recently moved

The Flagstone site required a cut to fill solution to level out proposed roads and housing blocks. Drill and Blast material the least preferred option due to the

requirement of the site material being needed as fill, this would have required

in to the estate. Excavators with hammers would have blown the already tight

Case Study

GCM17-07

Year 2017

Client

Allroads

Site/Location

Jimboomba

Region

Queensland

Scope

Bulk Earthworks

Volume

75,000 BCM

Production

175 bcm per hr.

Rock Type Sandstone

Rock Hardness 30 to > 90 MPa

GET Consumption

40 bcm per pick

Mechanical Availability

80%

Safety

Zero LTIs

program out of the water.

GCM proposed on utilising 2 x 2500 Wirtgen surface miners to undertake the work fitted with GPS to ensure all earthworks were done to design, which on this site was fairly detailed due to the difficult levels. The main feature of utilising surface miners was the milled material would be suitable to meet the engineers specification for use

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straight back in as fill (on average 75mm minus), with the additional benefit of being able to work in close proximity of residential areas.

hilly nature of the land and the sandstone material.

Project Details

GCM worked closely with the client Allroads in working out best methodology for the earthworks to happen. In this case required GCM to work very closely alongside a fleet of scrapers which picked up and placed the material ready for compaction.

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