

Westbrooke Estate Sub-Division Melbourne



The whole region is littered with large numbers of floating boulders which are costly to handle.

PROJECT SUMMARY

GCM carried out a trial of a surface miner, in the Westbrooke Estate subdivision in the Western region of Melbourne in August 2016.

The scope included:

- Mobilisation of a Wirtgen 2500 surface miner;
- Carrying out 21 days of milling in a variety of applications including rock excavation, trenching and land clearing to demonstrate the features and benefits of Wirtgen surface miners; and,
- The collection of production and GET consumption data on the local rock type/s.

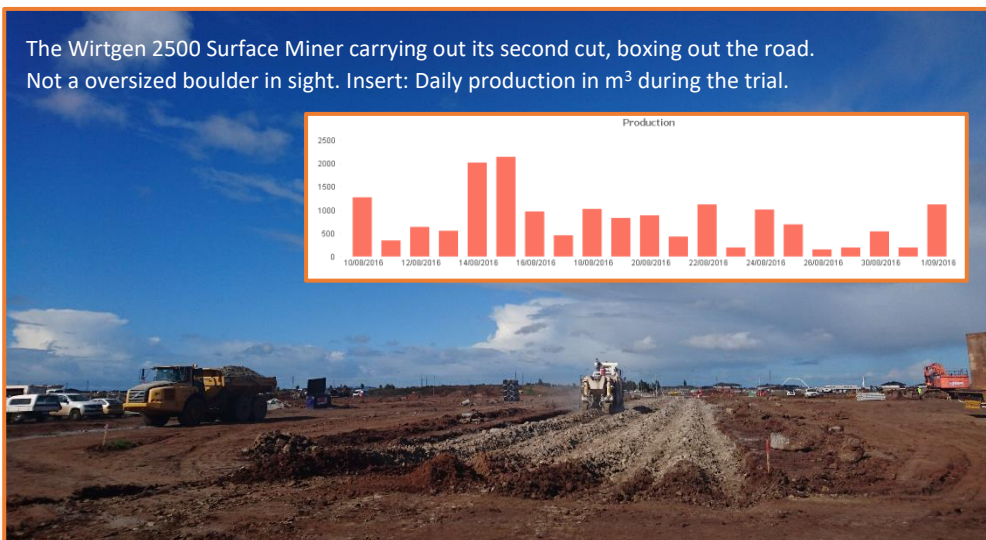
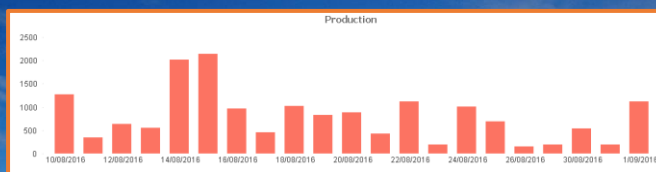
The general consensus was that the trial was a resounding success and two further subdivisions have subsequently been completed.

Production varied dramatically depending on the application. Production was highest at over 2000m³ per day when clearing large open areas down to a depth of 400mm and giving all of the floating rocks encountered a haircut.

The lowest production of 300 to 400m³ per day occurred when detailed final trimming of roads was carried out in restricted work areas (e.g. short runs).

The surface miner proved itself in a range of conditions including wet clays, transitional clay/boulders and hard basalt rock.

The Wirtgen 2500 Surface Miner carrying out its second cut, boxing out the road. Not a oversized boulder in sight. Insert: Daily production in m³ during the trial.



Case Study
GCM16-04

Year
2016

Client
Winslow Constructors

Site/Location
Outer Western Melbourne

Region
Victoria

Scope
Residential Estate

Total Production
16,737m³

Rock Type
Basalt (Volcanic)

Rock Hardness
Up to 100 Mpa

GET Consumption
Average of 85 m³/pick
Variable due to wide range of materials encountered

Safety
Zero LTIs

Project Highlights
Average 112m³ per hour
Successfully worked in clay and rock
SM unfazed by wet conditions

Global Civil and Mining

4 Dampier Road
Welshpool WA 6106
(08) 9258 3900

www.globalcivilandmining.com