



Autonomous Dredge

Client:

Glencore – Oaky Creek Coal (OCC)

Project Duration:

2 years

Enquires:

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Project Description

Our objective is to provide cost effective and economic solutions for the mining of existing water bound materials for further processing. We continue to exceed Oaky Creek Mine's expectations through the dredging process with measurable and specific targets set and achieved.

The provision of wet excavation solutions has demonstrated a reduction in both rates of land erosion and exposure to hazards and risks associated with load and hauling via mechanical excavation techniques. Through the implementation of an autonomous (unmanned) dredge, we provide economical management of large volume materials to water ratio for further processing.

Overall, this process has increased our client's productivity and reduced exposure to risks associated from working within an operating mining and industrial environment.

Key Results / Capabilities:

- Dam desilting
- Tailings recovery and reprocessing
- Low-cost product relocation
- Automation dredging for high-risk materials
- Ability for pumping 24/7
- Working range in water of < 1m up to 28m
- Management of site electrical including connection, commissioning and maintenance
- Adherence and compliance to geotechnical specification and strata failure procedures
- Management and supply of all volume data
- Design and compliance of preventative maintenance

