



PearlStreet

MINING / MATERIALS HANDLING CASE STUDY

CONDITION ASSESSMENT AND MATERIALS ENGINEERING AT CURRAGH OPEN CUT MINE

SERVICES: Integrated Condition Monitoring, Engineering & Materials Consulting

CONTRACT: Condition/Integrity Assessment and Materials Engineering Services

CUSTOMER: Wesfarmers Energy – Curragh Queensland Mining Limited

CUSTOMER OVERVIEW

Wesfarmers operates the Curragh open cut mine situated 200 km west of Rockhampton in Queensland's Bowen Basin. The mine produces over 7 million tonnes per annum of coking and steaming coal for both the domestic and export markets. The recently completed development of the Curragh North area has more than doubled recoverable reserves and ensures the mine's continued operation to beyond 2025.



Mining at Curragh revolves around 5 draglines. These massive machines, which are capable of excavating up to 103 cubic metres in a single pass, are used to remove fragmented overburden to expose the coal seams. The exposed coal and interseam waste, is removed by a fleet of excavators, front end loaders and trucks.

Raw coal is stockpiled prior to crushing and washing, a process that removes waste material, in a modern coal handling and washing plant. Various washed coal grades are stockpiled for loading onto rail transportation to either local customers or to the coal export terminals on the coast. Exported coal is shipped to customers around the globe.

OUR INVOLVEMENT

PearlStreet has been supplying Non Destructive Testing, Inspection and Materials Engineering Services to the Curragh mine for over 4 years, contributing to the safe, efficient operation and management of their mining and coal processing assets. We provide regular condition assessment inspections to the broad range of plant including material extraction, transport, product handling and dispatch. Additionally, fabrication inspections are conducted on new and overhauled plant and equipment, to ensure compliance with the relevant industry standards and specifications. Machine condition monitoring services are provided to the Coal Handling & Preparation Plant (CHPP).

FEATURES

- PearlStreet provides personnel to site, on an as required and regular service interval basis
- Technicians are based locally, enabling an around the clock site response in the event of emergencies

BENEFITS

- Contractually secure access to technical knowledge of Curragh's plant and equipment
- Condition assessment provides proactive identification of potential problems, before they become critical, enabling rectification during a scheduled maintenance period

PearlStreet is a leading provider of testing, inspection and asset care services to the energy, resources and infrastructure sectors.

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