



PearlStreet

MINING / MATERIALS HANDLING CASE STUDY

INTEGRATED CONDITION MONITORING AT DRAYTON COAL

SERVICES: Integrated Condition Monitoring, Engineering & Materials Consulting

CONTRACT: Condition/Integrity Assessment and Materials Engineering Services

CUSTOMER: Anglo Coal Australia – Drayton Coal, Hunter Valley, NSW

CUSTOMER OVERVIEW

Anglo Coal Australia operates the Drayton open cut mine located 13 km south of Muswellbrook in the upper Hunter Valley of NSW. The mine produces over 5 million tonnes per annum of thermal coal, for both the domestic and export markets. The mine is currently developing a new life-of-mine plan that will increase mineable reserves to 61 million tonnes. Mining at Drayton utilises one dragline, three hydraulic excavators and a substantial truck fleet. Conventional drill and blast methods are employed and the dragline is used to remove blasted overburden and interseam waste. Coal is mined using the excavators and is moved to the processing area, by off highway dump trucks, capable of carrying around 200 tonnes. Raw coal is stockpiled prior to crushing and washing, a process that removes waste material. The washing process is relatively new at Drayton and relates to the development of export markets. Various coal grades are stockpiled for loading onto rail transportation to either local customers or to the coal export terminal at Newcastle. Coal is shipped from Newcastle to customers around the globe.

OUR INVOLVEMENT

PearlStreet supplies a complete suite of Integrated Condition Monitoring Services to Drayton including Non Destructive Testing, Structural Inspection, Materials Engineering, Oil Analysis and Vibration Monitoring and Analysis. These services assure the safe and efficient operation of the mining and coal processing assets. We provide regular condition assessment of the plant, including extraction, transport, coal handling and dispatch. Fabrication and repair inspections are also completed on plant and equipment, to ensure compliance with relevant industry standards and specifications.



FEATURES

- PearlStreet provides personnel to site, on an as required 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 Drayton's plant and equipment
- Condition Monitoring 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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