



Taroborah Coal Project

Appendix 5 – Research



RESEARCH

During construction and operation, ongoing monitoring of the Project will be conducted in accordance with Environmental Authority (EA) conditions. In addition to the EA conditions the Project components, discussed below, will be further evaluated to improve environmental management strategies on site throughout the life of the mine.

Rehabilitation Trials

The Project is committed to undertaking progressive rehabilitation throughout the life of the mine. The progressive rehabilitation strategy will target areas as soon as they become available for rehabilitation aiming to minimise the total disturbance existing at any point in time during the life of the mine. This will also allow for practical trials and refinement of rehabilitation techniques.

It is anticipated that trials will be run to determine ideal seeding rates and seed blends. The species provided in the EIS are intended as a guide only and may be modified as trials show more appropriate blends.

Rejects Management

Disposal of rejects is proposed to be managed via their placement in engineered cells within the out-of-pit and in-pit spoil dumps. Although these materials will be blended with limestone / acid neutralising capacity material, due to the risk of acid mine drainage (AMD), initial screening of overburden, interburden and rejects material for AMD production via on-site analysis of total S and NAGpH during mining operations will be undertaken to ensure waste material placement is managed effectively.

Surface Water, Sediment and Groundwater Quality

Monitoring programs for surface, sediment and groundwater quality will be undertaken throughout all phases of the Project including construction, operation and decommissioning. The monitoring aims to collect data that will assist in monitoring potentially affected receiving environments including surface and groundwater. The data collected will guide further strategies concerning the surface water management system pertaining to the site and promote site specific trigger levels for surface and groundwater quality.

Greenhouse Gas Management

Shenhua International Group Pty Ltd (Shenhua) is committed to adopting and implementing the best practice measures and policies available to encourage a reduction in the Project's greenhouse gas emissions throughout the life of the Project. As the Project is still in the design phase, Shenhua proposes to incorporate a number of features into the Project to reduce the greenhouse gas emissions from the outset of the Project. As technologies are developed, Shenhua will ensure that all opportunities to reduce the Project's emissions are investigated.