

IEA Reference	Recommendation	Response	Due Date
Recommendations			
Project Approval 05_0117 Schedule 5 condition 4 and Project Approval 08_0135 Schedule 6 condition 4,	It is recommended that future Annual Reviews be prepared with consideration of the format and content of the recently released Annual Review Guidelines (October 2015).	MCO will prepare future Annual Reviews in consideration of the Annual Review Guideline and requirements of consents, Mining leases and licences.	31 March 2016
Blast Management Plan	It is recommended that management of blasts to reduce potential of fume generation should be reviewed in relation to the Blast Fume Management Strategy by ensuring the quality of product used for the blasts is checked before the blast is initiated and meets the gassing specifications provided by the supplier.	No reportable blast fume events have occurred since September 2014. Explosives type and density are checked during loading. The Blast Management Plan will be reviewed and where required revised to the satisfaction of the Secretary (DP&E).	5 July 2016
Project Approval 05_0117 Schedule 3 condition 70 Energy Savings Action Plan	It is recommended that the Energy Saving s Action Plan be reviewed to identify any energy saving measures which may be implemented on site to reduce the energy use in relation to the mining operations. The ESAP is also to include a program to monitor the effectiveness of the measures to reduce energy use.	A range of energy efficiency activities have been undertaken by MCO including the progressive move to LED lighting (fixed and mobile), maintenance regime for fixed and mobile plant to improve operational efficiency, mine planning review to improve operational efficiencies. MCO will revise the Stage 1 Project Approval (05_0117) required ESAP	5 July 2016
Biodiversity Offset	It is recommended that the staged development of the Biodiversity Management Plan and offset management to meet the long term security requirements of the Project Approval and the EPBC Approvals conditions, be progressed in general accordance with the correspondence submitted to DP&E on 8 December 2015 to secure the biodiversity offset areas.	MCO agrees that the Biodiversity Management Plan, including offset management, will be progressed as proposed.	On-going
Improvement Opportunities			
Opportunity 1	As development of rehabilitation performance indicators and completion criteria is an iterative process, the completion criteria should be reviewed and revised where necessary using monitoring results to refine the completion criteria in future revisions of the Rehabilitation Management Plan and the Mining Operations Plan in accordance with clause (i) Explanatory Note 2 – Rehabilitation and Mine Closure in ESG3: Mining Operations Plan (MOP) Guidelines September 2013 NSW Trade and Investment	The Rehabilitation Management Plan and Mining Operations Plan will be reviewed and revised where necessary in consideration of the Mining Operations Plan Guidelines (NSW T&I 2013)	5 July 2016

Opportunity 2	The testing of subsoil and spoils should be refined to identify reactive soils and guide amelioration requirements to reduce the risk of tunnel and gully erosion in rehabilitated areas and creek line restoration.	MCO will revise the Rehabilitation Management Plan to include representative sampling of subsoils and spoil to identify reactive soils and amelioration requirements.	5 July 2016
Opportunity 3	As the final design of the Murragamba and Eastern Creek diversions are being developed, consideration should be given to removing the channel banks from rehabilitated areas once adequate grass cover has been established ($\geq 70\%$), to re-establish sheet flow conditions to minimise the potential for tunnel and subsequent gully erosion. Landform stability using this approach can be verified via spoil characterisation, the use of an erosion prediction model and landform evolution models (such as WEPP and SIBERIA) can be useful relatively low cost tools for assisting landform design planning.	<p>MCO will develop detailed diversion design plans in consultation with technical experts and relevant government authorities and be finalised prior to the commencement of the diversion works.</p> <p>As part of the detailed design, MCO will consider removing channel banks, where topography allows, once sufficient cover is established to establish sheet flow.</p>	On-going
Opportunity 4	In future revisions of the Rehabilitation Management Plan, Biodiversity Management Plan and Mining Operations Plan the management and mitigation measures to be undertaken on site should be refined to provide clear direction as to what management and mitigation measures will be implemented to the various areas of the site as the nature of the rehabilitation and restoration of the final landform and land uses are determined.	<p>MCO considers the Rehabilitation Management Plan and Mining Operations plan provide appropriate management and mitigation measures. The Biodiversity Management Plan will be developed in a staged process as agreed with the DP&E.</p> <p>In correspondence (dated 25 May 2015), the OEH advised Yancoal that the RMP:</p> <p><i>“is comprehensive and detailed, providing the necessary guidance for restoring potentially ecologically sound vegetation communities and threatened species habitat to mined areas within the Moolarben Coal Complex”.</i></p> <p>The RMP was also independently reviewed by Dr David Freudenberger, an expert in landscape restoration, ecosystem management and wildlife ecology with the Australian National University and former scientist with the Commonwealth Scientific and Industrial Research Organisation’s (CSIRO) Wildlife and Ecology division. Dr Freudenberger concluded that the RMP:</p>	On-going.

		<p><i>“should prove to be a highly useful long term guide for restoring the ecological function, structure and composition of the mined surfaces”.</i></p> <p>Also that</p> <p><i>“performance indicators are readily measurable and the completion criteria are achievable and ecological robust”.</i></p> <p>MCO will progressively review and where necessary revise the Rehabilitation Management Plan, Biodiversity Management Plan and Mining Operations Plan to refine the management and mitigation measures to include learnings from rehabilitation performance whilst reflecting development consent commitments</p>	
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