

MACHEnergy

Mount Pleasant Operation

A JOINT VENTURE WITH
JODA
Japan Coal Development Australia



Attachment 2

Cross-reference to Assessment Requirements
Relevant to the EPBC Act

**Table A2-1
Commonwealth Department of Agriculture, Water and the Environment: Environmental Assessment
Requirements – EIS Reference Summary**

| Assessment Requirement | EIS Reference |
|---|---|
| General Assessment Requirements | |
| <p>The Environmental Impact Statement (EIS) for the development must address the matters outlined in Schedule 4 of the <i>Environment Protection and Biodiversity Conservation Regulations 2000</i> and the matters outlined below in relation to controlling provisions.</p> <p>For each of the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act) -listed threatened species and ecological communities impacted by the proposed action, the EIS must provide the following information:</p> <ul style="list-style-type: none"> Survey results, including details of the scope, timing, and methodology for studies or surveys used and how they are consistent with (or justification for divergence from) published Commonwealth guidelines and policy statements. For ecological communities, this includes any condition thresholds provided in the listing advice or approved conservation advice. | <p>Section 7.10</p> <p>Section 7.2 of Appendix E</p> <p>Sections 6 and 7 of Attachment A of Appendix E</p> <p>Sections 2 and 3 of Attachment B of Appendix E</p> |
| <ul style="list-style-type: none"> A description and quantification of habitat in the study area (including suitable breeding habitat, suitable foraging habitat, important populations and habitat critical for survival), with consideration of, and reference to, any relevant Commonwealth guidelines and policy statements including species and communities listing advice, conservation advice, recovery plans and threat abatement plans. | <p>Section 7.10</p> <p>Sections 7.2 and 7.4 of Appendix E</p> <p>Section 7 and Appendix 2 of Attachment A of Appendix E</p> <p>Section 3 and Appendix B of Attachment B of Appendix E</p> |
| <ul style="list-style-type: none"> Maps displaying the above information (specific to EPBC matters) overlaid with the proposed action. It is acceptable, where possible, to use the mapping and assessment of Plant Community Types (PCTs) and the species surveys prescribed by the BAM as the basis for identifying EPBC Act-listed species and communities. The EIS must clearly identify which PCTs are considered to align with habitat for the relevant EPBC Act-listed species or communities, and provide individual maps for each species or community. | <p>Figures 7-22 and 7-23 of Section 7.10</p> <p>Figures 7, 8, 11-15, 19, 24 and 25 of Appendix E</p> <p>Figure 15 of Attachment A of Appendix E</p> <p>Figures 3, 5-11, 13 and 14 of Attachment B of Appendix E</p> |
| <ul style="list-style-type: none"> A description of the nature, geographic extent, magnitude, timing and duration of any likely direct, indirect and consequential impacts on any relevant EPBC Act-listed species and communities. It must clearly identify the location and quantify the extent of all impact areas to each relevant EPBC Act-listed species or community. | <p>Section 7.10</p> <p>Section 7.4 of Appendix E</p> |
| <ul style="list-style-type: none"> Information on proposed avoidance and mitigation measures to deal with the impacts of the action, and a description of the predicted effectiveness and outcomes that the avoidance and mitigation measures will achieve. | <p>Section 7.10</p> <p>Attachment 9</p> <p>Section 7.5 of Appendix E</p> |
| <ul style="list-style-type: none"> Quantification of the offset liability for each species and community significantly impacted, and information on the proposed offset strategy, including discussion of the conservation benefit for each species and community, how offsets will be secured, and the timing. It is a requirement that offsets directly contribute to the ongoing viability of the specific protected matter impacted by a proposed action i.e. 'like-for-like'. | <p>Section 7.10</p> <p>Sections 7.3 and 7.6 of Appendix E</p> |
| Key Issues | |
| <p>The EIS must include the following:</p> <ul style="list-style-type: none"> A detailed water management plan for the proposed project with sufficiently detailed information on operational water requirements of the project and associated infrastructure; | <p>Sections 3.11, 7.8 and 7.9</p> <p>Section 10 of Appendix C</p> <p>Sections 4 and 9 of Appendix D</p> |
| <ul style="list-style-type: none"> A detailed assessment of potential groundwater impacts, especially if data and modelling suggests impacts may propagate to the Hunter alluvium and flow in the Hunter River; | <p>Sections 7.8 and 7.11</p> <p>Sections 7, 8 and 9 of Appendix C</p> |
| <ul style="list-style-type: none"> The use of baseline or pre-existing data to inform the groundwater models, surface water models, and to inform any GDE assessments, including: <ul style="list-style-type: none"> a numerical groundwater model which has appropriate resolution to determine impacts to rivers and creeks in the project area, including the Hunter River, Sandy Creek, Rosebrook Creek, Muscle Creek and other unnamed drainage lines both upstream and downstream of the proposed project area; | <p>Section 5 and Appendix A of Appendix C</p> |

Table A2-1 (Continued)
Commonwealth Department of Agriculture, Water and the Environment: Environmental Assessment Requirements – EIS Reference Summary

| Assessment Requirement | EIS Reference |
|--|--|
| Key Issues (Continued) | |
| <ul style="list-style-type: none"> - a hydrogeological conceptualisation to identify areas of shallow groundwater and potential areas of groundwater discharge; | Section 5.9 and Section A3.2 of Appendix A of Appendix C |
| <ul style="list-style-type: none"> - consideration of the methods provided in the 2019 report <i>Information Guidelines Explanatory Note: Assessing groundwater-dependent ecosystems</i>, by Doody TM, Hancock PJ, Pritchard JL. | Sections 7.8 and 7.11 Sections 5.8 and 8.4 of Appendix C Section 3.2.6 of Appendix F |
| <ul style="list-style-type: none"> - mapping of vegetation, seasonal depths to groundwater, and shallow groundwater drawdown maps overlaid to identify areas of potential GDEs, supported by monitoring data gathered near the regions occupied by potential GDEs, with the shallow groundwater monitoring locations also plotted on the maps; | Section 7.8 Section 5.8 of Appendix C Section 4.4.5 of Appendix E |
| <ul style="list-style-type: none"> - ecohydrological conceptualisations and models that integrate results from hydrogeological, hydrological, geomorphological and ecological investigations at a spatial and temporal scale that is suitable for predicting potential impacts to GDEs and pathways of likely effects of the proposed development; and | Section 4.4 of Appendix E Sections 6 and 7 of Attachment A of Appendix E |
| <ul style="list-style-type: none"> - proposed mitigation strategies (and measured to monitor the effectiveness of those strategies), based on the potential impact pathways identified above; | Sections 7.8, 7.10 and 7.11 Attachment 9 Section 10 of Appendix C Section 4.7 of Appendix E Section 6 of Appendix F |
| <ul style="list-style-type: none"> • The use of baseline or pre-existing surface and groundwater water quality data to establish water quality monitoring guidelines at the site, with particular attention given to mine-affected water entering and leaving the Bengalla mine site's controlled release dam when establishing an updated water quality monitoring regime as part of the Water Management Plan required above; | Sections 7.8, 7.9 and 7.11 Sections 5.2 and 10 of Appendices C Sections 3 and 9 of Appendix D Sections 3.2 and 6.2 of Appendix F |
| <ul style="list-style-type: none"> • Consideration of closure and rehabilitation activities that will be undertaken and what the final landform will be at the end of mining to avoid long-term impacts to groundwater and surface water resources at the site; and | Section 7.9 Attachment 8 Sections 7.2, 8 and 10 of Appendix C Sections 4.4, 8 and 9.2 of Appendix D Sections 4.1, 4.7 and 7.5 of Appendix E Section 5 of Appendix F |
| <ul style="list-style-type: none"> • An assessment of cumulative impacts identifying the extent to which the impacts from the proposed action interact with impacts from neighbouring approved coal mines. | Sections 7.8, 7.9, 7.10 and 7.11 Sections 6, 7, 8 and Appendix A of Appendix C Section 8.3 of Appendix D Section 4.3 of Appendix E Section 5.9 of Appendix F |