Appendix B

Environmental assessment requirements



Appendix B Environmental Assessment Requirements

Table B.1 Envrionmental Assessment Requriements

Table B.1 Envrionmental Assessment Requriements			
Requirement	Technical team	Addressed in EIS	Addressed in technical study
A full description of the development, including:		Chapter 2	-
the geological setting and resource to be extracted, demonstrating efficient resource recovery within environmental constraints	General	Chapter 2	-
the mine site and processing site layout and scheduling	General	Chapter 2	-
minerals processing	General	Chapter 2	Appendix CC
surface infrastructure and facilities (including any infrastructure that would be required for the development, but the subject of a separate	General	Chapter 2	-
approvals process)			
a waste (overburden, tailings, etc) management strategy	General / TSF Design	Chapter 2	Appendix D
a water management strategy	Water	Chapter 9	Appendix J & K
a rehabilitation strategy	Rehabilitation	Chapters 22 & 35	Appendix U
the likely interactions between the development and any other existing, approved or proposed mining related development in the vicinity of	General	Chapter 5,	
the sites			
a strategic justification of the development focusing on site selection and the suitability of the proposed sites	General	Chapter 38	
a list of any approvals that must be obtained before the development may commence	General	Chapter 38	Appendix B & E
an assessment of the likely impacts of the development on the environment, focusing on the specific issues identified below, including:			
a description of the existing environment likely to be affected by the development, using sufficient baseline data	General	Parts D & E	Appendix E
an assessment of the potential impacts of all stages of the development, including any cumulative impacts, taking into consideration relevant	Various	Parts D & E	Appendix D to Appendix EE
laws, environmental planning instruments, guidelines, policies, plans and industry codes of practice			
a description of the measures that would be implemented to avoid, mitigate and/or offset the impacts of the development, and an assessment	Various	Parts D & E	Appendix D to Appendix EE
of: whether measures are consistent with industry best practice, and represent the full range of reasonable and feasible mitigation measures			The state of the s
that could be implemented, the likely effectiveness of these measures, and whether contingency plans would be necessary to manage any			
residual risks, and a description of the measures that would be implemented to monitor and report on the environmental performance of the			
development			
a consolidated summary of all he proposed environmental management and monitoring measures, identifying all the commitments in the EIS	General	Chapter 38	-
consideration of the development against all relevant environmental planning instruments (including Part 3 of the State Environmental Planning Policy Mining, Petroleum Production and Extractive Industries) 2007)	General	Chapter 3	-
the reasons why the development should be approved having regard to: relevant matters for consideration under the Environmental Planning	General	Chapter 39	<u> </u>
Assessment Act 1979, including the objects of the Act and how the principles of ecologically sustainable development have been incorporated	General	Chapter 33	
in the design, construction and ongoing operations of the development, the biophysical, economic, and social costs and benefits of the			
development, the suitability of the sites with respect to potential land use conflicts with existing and future surrounding land uses and feasible			
alternatives to the development (and its key components), including the consequences of not carrying out the development.			
In addition to the matters set out in Schedule 1 of the Environmental Planning and Assessment Regulation 2000, the development application	Provided in a separate re	eport directly to DPE	
must be accompanied by a signed report from a suitably qualified person that includes an accurate estimate of the capital investment value of			
the development (as defined in Clause 3 of the Environmental Planning and Assessment Regulation 2000), including details of all the			
assumptions and components from which the capital investment value calculation is derived.			
The EIS must address the following specific issues:			
Land: including an assessment of:			
the likely impacts of the development on the soils and land capability of the site and surrounds and a description of the mitigation and	Soil	Chapter 7 & 23	Appendix H & W
management measures to prevent, control or minimise impacts of the development			
the likely agricultural impacts of the development, including identification of any strategic agricultural land	AIS	Chapter 8 & 20	Appendix I & T
the likely impact of the development on landforms (ie local topography), including the long term geotechnical stability of any new landforms	Rehabilitation & Visual	Chapter 8 & 23	Appendix H
proposed on sited	AIS & Social	Chamber 0 0 20	A manadia I Q T
the compatibility of the development with other land uses in the vicinity of the development in accordance with the requirements of Clause 12	AIS & SOCIAL	Chapter 8 & 20	Appendix I & T
of State Environmental Planning Policy (mining, Petroleum Production and Extractive Industries) 2007, paying particular attention to the	1		
agricultural land use in the region			

Water- including			
	Water	Chapters 9 & 24	Appendix J, K & X
Aquifer Interference Policy	·········	onapters s a 2 :	/ Appendix s) it a x
an assessment of the hydrological characteristics of the site and downstream	Water	Chapters 9 & 24	Appendix J, K & X
, ,	Water	Chapters 9 & 24	Appendix J, K & X
other water uses, including impacts to water supply from Carcoar Dam, riparian and licensed water users, use and discharge of water during			, , , , , , , , , , , , , , , , , , , ,
construction, commissioning and maintenance of the pipeline infrastructure			
a detailed site water balance, including a description of site water demands, water disposal methods (inclusive of volume and frequency of any	Water	Chapter 9	Appendix J
water discharges), water supply and transfer infrastructure and water storage structures and measures to minimise water use	vater	Chapter 5	/ ipperiolx s
water discharges,, water supply and value in most detail and water storage structures and measures to minimise water disc			
demonstration that water for the construction and operation of the development can be obtained from an appropriately authorised and	Water	Chapters 2 & 24	Appendix X
reliable supply in accordance with the operating rules of any relevant Water Sharing Plan (WSP)	·········	onapters 2 a 2 ·	, penan x
a description of the measures proposed to ensure the development can operate in accordance with the requirements of any relevant WSP or	Water	Chapters 9 & 24	Appendix J, K & X
water source embargo	vater	Chapters 5 & 24	/ Appendix 3, R & X
a detailed description of the proposed water management system (including sewage), water monitoring program and other measures to	Water	Chapters 9 & 24	Appendix J, K & X
mitigate surface and groundwater impacts	vater	Chapters 5 & 24	/ Appendix 3, R & X
	Soil and Water	Chapters 7, 9 & 24	Appendix H, J & X
risk, steep gradient land or erodible soils types would be managed and any contingency requirements to address residual impacts	Jon and Water	Chapters 7, 5 & 24	Appendix 11, 3 & X
insk, steep gradient land or erouible sons types would be managed and any contingency requirements to address residual impacts			
an assessment of the potential flooding impacts of the project.	Water	Chapters 9 & 24	Appendix J & X
Noise, Vibration and Blasting:	vvatei	Chapters 9 & 24	Appendix 3 & X
an assessment of the likely operational noise impacts of the development (including construction noise) in accordance with the Noise Policy for	Acquetics	Chapters 10 & 25	Appendix L & AA
Industry NSW, and the Voluntary Land Acquisition and Mitigation Policy	Acoustics	Chapters 10 & 25	Appendix L & AA
if a claim is made for specific construction noise criteria for certain activities, then this claim must be justified and accompanied by an	Acoustics	Chapters 10 & 25	Appendix L & AA
assessment of the likely construction noise impacts of these activities in accordance with the Interim Construction Noise Guideline	Acoustics	Chapters 10 & 25	Appendix L & AA
assessment of the likely construction hoise impacts of these activities in accordance with the interim construction hoise dudenine			
an assessment of the likely road noise impacts of the development in accordance with the NSW Road Noise Policy and	Acoustics	Chapters 10 & 25	Appendix L & AA
an assessment of the likely blasting impacts of the development on people, animals, buildings and infrastructure, and significant natural	Acoustics	Chapters 10 & 25	Appendix L
features, having regard to the relevant ANZECC guidelines	Acoustics	Chapters 10 & 25	Appendix E
Air Quality:			
	Air Quality	Chapters 11 & 26	Appendix M
with the Approved Methods and Guidance for the Modelling and Assessment of Air Pollutants in NSW, and having regard to the NSW	7 iii Quanty	Chapters 11 & 20	/ ipperion ivi
Government's Voluntary Land Acquisition and Mitigation Policy and			
an assessment of the likely greenhouse gas impacts of the development	Air Quality	Chapter 12	Appendix M
a description of the feasibility of measures that would be implemented to monitor and report on the emissions (including fugitive dust and	7 til Quality	Chapters 11, 12 & 26	Appendix M
greenhouse gases) of the development		Chapters 11, 12 & 20	Appendix Wi
Biodiversity:			
,	Ecology	Chapters 13 & 27	Appendix N & X
region, which:	LCOIOGY	enapters 13 & 27	/ pperion it a x
	Ecology	Chapter 13	Appendix N
impacts in accordance with the NSW Biodiversity Offsets Policy for Major Projects	LCOIOGY	Chapter 13	Appendix N
for the water supply pipeline is assessed in a Biodiversity Development Assessment Report in accordance with Section 7.9 of the Biodiversity	Ecology	Chapter 27	Appendix Y
Conservation Act 2016 (NSW), the Biodiversity Assessment Method, and includes a strategy to offset any residual impacts in accordance with	LCOIOGY	Chapter 27	Appendix
the Biodiversity Conservation Act 2016 (NSW)			
	Ecology	Chapter 14 & 27	Appendix O
Habitats	LCOIOEY	Chapter 14 & 27	Appendix 0
an assessment of impacts to koalas and koala habitat in accordance with State Environmental Planning Policy No.44- Koala Habitat Protection	Ecology	Chapters 13 & 27	Appendix N & X
and	LCOIOBY	C. Tapter 3 13 & 27	Appendix N & A
a detailed description of the proposed regime for minimising, managing and reporting on the biodiversity impacts of the development over	Ecology	Chapter 13 & 17	Appendix N & X
time;	LCOIOGY	Chapter 13 & 17	Αργετιαίχ Ν α Λ
		1	1
Heritage: an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including adequate	Heritage	Chanters 1E 16 20 9 20	Appendix P & Z
	Heritage	Chapters 15, 16, 28 & 29	Appelluix F & Z
consultation with Aboriginal stakeholders having regard to the Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH,			
2010) and			

an assessment of the impact on environmental heritage in accordance with the NSW Heritage Manual, including heritage conservation areas	Heritage	Chapters 15, 16, 28 & 29	Appendix P & Z
and State and local heritage items within and near the site, and detailed mitigation measures to offset potential impacts on Heritage values.	Tieritage	Chapters 13, 10, 20 & 23	Appendix 1 & 2
and state that four her rage remains and near the stee, and detailed mitigation measures to onset potential impacts on her rage values.			
Traffic and Transport:			
	Traffic	Chapters 17 & 30	Appendix Q & BB
network and any cumulative impacts of other developments in the locality			The state of the s
an assessment of the site access routes (including Mid Western Highway and Great Western Highway) and site access points in accordance with	Traffic	Chapters 17 & 30	Appendix Q & BB
the Roads Act 1993 and			1
a description of the measures that would be implemented to mitigate and/ or manage potential traffic impacts including a schedule of all	Traffic	Chapters 17 & 30	Appendix Q & BB
required road upgrades, road maintenance contributions, management of oversized and over mass traffic and other traffic control measures,			
developed in consultation with the relevant road authority (if required)			
Hazards:			
Hazards- including an assessment of the likely risks to public safety, paying particular attention to potential geochemical and bushfire risks, and	General/risk	Chapter 18 & 31	Appendix R
storage, handling, transport and use of any dangerous goods			
Visual:			
the likely vidual impacts of the development on private land in the vicinity of the development and key vantage points in the public domain,	Visual	Chapter 19 & 32	Appendix S
paying particular attention to any temporary and permanent modification of the landscape (eg overburden dumps, bunds, tailings facilities)			
and			
the lighting impacts of the development.	Visual	Chapter 19 & 32	Appendix S
Waste Management:			
	General	Chapters 2, 6, 21 & 34	Appendix D & F
likely to be generated during construction and operation, including and not limited to non-production waster, reagent materials and cyanide			
compounds and			
	General	Chapter 21 & 34	Appendix D
Protection and the Environment Operations (Waste) regulation 2014, including and not limited to operational water by-products, adequate			
spill detection and clean up systems, suitable locations for disposal or reuse of spoil generated during construction.			
Closure, Rehabilitation and Final Landform- including a Rehabilitation and Landscape Management Strategy providing	Dahahilitatian	Charter 22 0 25	A div. I I
a detailed overview of the final land-use and closure criteria for the development, including both the mine site and raw water pipeline and	Rehabilitation	Chapter 22 & 35	Appendix U
identification and discussion of opportunities to improve rehabilitation and environmental outcomes for existing disturbed areas within the	Rehabilitation	Chapter 22 & 35	Appendix U
project site and	Neriabilitation	Chapter 22 & 33	Appendix 0
Socio-Economic- including an assessment of:			
·	Social	Chapter 20	Appendix T
Mining, Petroleum Production and Extractive Industry Development (2017), including the likely impacts of the development on the local	300101	Chapter 20	прених г
community, cumulative impacts (considering other mining developments in the locality), and consideration of workforce accommodation			
community, community and commu			
an assessment of the likely economic impacts of the development, paying particular attention to:	Economic	Chapter 33	Appendix DD
	Economic	Chapter 33	Appendix DD
•	Economic	Chapter 33	Appendix DD
	Social	Chapter 20	Appendix T
consideration of the need for a Voluntary Planning Agreement in relation to the demand for the provision of local infrastructure and services.	Social	Chapter 20	Appendix T
Consultation:			
During the preparation of the EIS, you should consult with relevant local, State and Commonwealth Government authorities, infrastructure and	General & Heritage	Chapter 4	Appendix P & Z (RAP
service providers, community groups, Registered Aboriginal Parties (RAPs) affected landowners, and holders of existing mining and exploration			consultation)
authorities intersected by the proposed pipeline corridor.			
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	General	Chapter 4	-
Guidelines for State Significance Projects, and consult with the committee during the preparation of the EIS.			
, ,	General	Chapter 4	-
have been addressed in the EIS.			
Further consultation after 2 years:			

	ı		
If you do not lodge a development application and an EIS for the development within 2 years of the issue date of these Environmental	l-	-	-
Assessment Requirements (EARs), you must consult further with the Secretary in relation to the predation of the EIS.			

Appendix B - Agency requirements

Table B.2 Agency Requirements

gency	Requirement	Technical team	Addressed in EIS	Addressed in technical study
PA				jouary
	Site Layout:			
	provide maps, at an appropriate scale, with clearly identifies the proposed site layout relevant to the environmental features such as drainage lines, terrain etc, over the life of the Project	General	Part A	Appendix V
	provide maps which show land ownership information and impacts assessment information at an appropriate scale	General	Part A to Part E	Appendix A
	Tailings Dam Management:			
	proponent proposes a TSF linear system that will satisfy the tailings dam policy	TSF Design	Chapter 2	Appendix D
	undertake a tailings risk assessment based on the estimated tailings composition	TSF Design	Chapters 2 & 6	Appendix D & F
	The risk assessment should contain sufficient information to enable the EPA to carry out an independent assessment to determine if the tailings pose a high risk to the environment, as per the tailings dam policy, and therefore requiring a higher level of protection as stated in the tailings dam policy.	TSF Design	Chapters 2 & 6	Appendix D & F
	risk assessment should include detailed discussion of options to dispose of, and handle tailings as described above, which are substantial improvements to the dated method of slurry disposal within valley filled tailings dams	TSF Design	Chapter 6	Appendix D & F
	The EPA expects that this proposal utilise best management practice as detailed in the 'Tailings Management - Leading Practice Sustainable Development Program for the Mining Industry' (Australian Government 2016).	TSF Design	-	Appendix D & F
	TSF and CWS liner systems must be designed, constructed and operated to prevent pollution of waters (including surface and ground water) from seepage of contaminants (vertical and lateral) through the base and side walls.	TSF Design	Chapter 2	Appendix D
	A risk assessment process should be used to determine a suitable liner system including appropriate hydraulic conductivity and liner thickness.	TSF Design	Chapter 2	Appendix D & F
	Cyanide Use:		-	
	requests that the proponent provide a detailed justification on the requirement to use cyanide in the context of current mining best practice, as alternatives are known to be available	Processing	Chapter 2 & 6	Appendix CC
	requires a detailed geochemical assessment (beyond that described in the PEA) outlining: a) why the flotation method is not suitable, and b) why cyanide is a 'necessary reagent required in the proposed method of 'gravity-separation' and why no other alternative reagent is suitable.	Processing	Chapter 6	Appendix CC
	Air Quality			
	The goal should be to maintain existing rural air quality and protect sensitive receptors, both on and off site from adverse impacts of dust and odour and other relevant air pollutants.	Air quality	Chapters 11 & 26	Appendix M
	Background ambient air levels should be identified to inform the assessment.	Air quality	Chapters 11 & 26	Appendix M

The EPA requests that modelling/estimation is carried out to determine that sufficient water is available for dust control and suppression, in addition to the water required for processing.	Air quality	Chapters 11 & 26	Appendix M
The AQIA should:		Chapters 11 & 26	Appendix M
1. Assess the risk associated with potential discharges of fugitive and point source emissions for all stages of the proposal and assessment of risk relating to environmental harm, risk to human health and amenity	Air quality	Chapters 11 & 26	Appendix M
2. Justify the level of assessment undertaken on the basis of risk factors, including but not limited to:	Air quality	Chapters 11 & 26	Appendix M
a. proposal location	Air quality	Chapters 11 & 26	Appendix M
b. characteristics of the receiving environment; and	Air quality	Chapters 11 & 26	Appendix M
c. type and quantity of pollutants emitted.	Air quality	Chapters 11 & 26	Appendix M
3. Describe the receiving environment in detail. The proposal must be contextualised within the receiving environment (local, regional and inter-regional as appropriate). The description must include but need not be limited:	Air quality	Chapters 11 & 26	Appendix M
a. meteorology and climate	Air quality	Chapters 11 & 26	Appendix M
b. topography	Air quality	Chapters 11 & 26	Appendix M
c. surrounding land-use, receptors and	Air quality	Chapters 11 & 26	Appendix M
d. ambient air quality.	Air quality	Chapters 11 & 26	Appendix M
4. Include a detailed description of the proposal. All processes that could result in air emissions must be identified and described. Sufficient detail to accurately communicate the characteristics and quantity of all emissions must be provided.	Air quality	Chapters 11 & 26	Appendix M
5. include a consideration of 'worst-case' emission scenarios and impacts at proposed emission limits	Air quality	Chapters 11 & 26	Appendix M
6. Account for cumulative impacts associated with existing emission sources as well as any currently approved developments linked to the receiving environment	Air quality	Chapters 11 & 26	Appendix M
7. Include air dispersion modelling where there is a risk of adverse air quality impacts, or where there is a sufficient uncertainty to warrant a rigorous numerical impact assessment. Air dispersion modelling must be conducted in accordance with the Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (2016).	Air quality	Chapters 11 & 26	Appendix M
8. Demonstrate the projects ability to comply with the relevant regulatory framework, specifically the Protection of the Environment Operations (Clean Air) Regulation 2010.	Air quality	Chapters 11 & 26	Appendix M
9. Provide an assessment of the project in terms of the priorities and targets adopted under the NSW State Plan 2010 and its implementation plan Action for Clean Air	Air quality	Chapters 11 & 26	Appendix M
10. Detail emission control techniques and practices that will be employed by the proposal	Air quality	Chapters 11 & 26	Appendix M
Greenhouse gas:			
1. The EA should include a comprehensive assessment of, and report on, the project's predicted greenhouse gas emissions (tCO2e). Emissions should be broken drown by:	GHG	Chapter 12	Appendix M
a. direct emissions (scope 1 as defined by the Greenhouse Gas Protocol- see reference below),	GHG	Chapter 12	Appendix M

b. Scope 2 and 3 indirect emissions (all other emissions that are a consequence of the mine's activities, including annual emissions for each year of the project, before and after implementation of the project, including annual emissions for each year of the project (construction, operation and decommissioning).	GHG	Chapter 12	Appendix M
2. If relevant, greenhouse emission intensity (per unit of production) should be compared before and after the project. Emission intensity should be compared with best practice if possible	GHG	Not applicable – this is a Greenfield development	-
3. Greenhouse emissions should be estimated using an appropriate methodology in accordance with NSW, Australian and International Guidelines (refer guidelines mentioned in Attachment 2).	GHG	Section 12.1	Appendix M
	GHG	Not applicable - there is no Carbon Pollution Reduction Scheme in place.	-
5. The EA should also evaluate and report on the feasibility of measures to reduce greenhouse gas emissions associated with the project, concentrating on emissions not covered by the CPRS	GHG	Chapter 12	Appendix M
6. The proponent should also identify if there are any cost-effective opportunities to reduce scope 3 emissions (e.g. by using methods of supply or distribution).	GHG	Chapter 12	Appendix M
Impacts of Noise and Vibration		•	•
Potential impacts on the noise amenity of the surrounding area should be assessed in accordance with the NSW Government's Industrial Noise Policy (INP).	Acoustics	Chapters 10 & 25	Appendix L & AA
	Acoustics	Chapters 10 & 25	Appendix L & AA
The noise assessment must include (but not be limited to) an assessment of the C-weighted noise (low frequency) as well as A-weighted noise.	Acoustics	Chapters 10 & 25	Appendix L & AA
1. In relation to noise, the following matters should be addressed (where relevant as part of the Environmental Assessment) General:	Acoustics	Chapters 10 & 25	Appendix L & AA
2. Construction noise associated with the proposed development should be assessed using the Interim Construction Noise Guideline (DECC, 2009).	Acoustics	Chapters 10 & 25	Appendix L & AA
3. Operational noise from all industrial activities (including private haul roads and private railway lines) to be undertaken on the premises should be assessed using the guidelines contained in the Noise Policy for Industry.	Acoustics	Chapters 10 & 25	Appendix L & AA
4. Detail the proposed hours of operation for each major noise source activity and the monitoring program and justification process that will be utilised to alter mining activities from day and afternoon to 24 hour.	Acoustics	Chapters 10 & 25	Appendix L & AA
5. Vibration from all activities (including construction and operation) to be undertaken on the premises should be assessed using the guidelines contained in the Assessing Vibration: a technical guideline (DECC, 2006)	Acoustics	Chapters 10 & 25	Appendix L & AA

6. If blasting is required for any reasons during the construction or operational stage of the proposed development, blast impacts should be demonstrated to be capable of complying with the guidelines contained in Australian and New Zealand Environment Council- Technical basis for guidelines to minimise annoyance due to blasting overpressure and ground vibration (ANZEC, 1990)	Acoustics	Chapters 10 & 25	Appendix L & AA
Road			
7. Undertake a road traffic noise assessment in accordance with the requirements of the NSW Road Noise Policy. Note: The NSW Road Noise Policy replaced the Environmental Criteria for Road Traffic Noise from 1 July 2011. Guidance has been developed to assist practitioners and authorities understand which policy is to be applied to projects during the transition period from the Environmental Criteria for Road Traffic Noise (ECRTN) to the Road Noise Policy (RNP).	Acoustics	Chapters 10 & 25	Appendix L & AA
8. Noise on public roads from increased road traffic generated by land use developments should be assessed using the guidelines contained in the Environmental Criteria for Road Traffic Noise (EPA, 1999).	Acoustics	Chapters 10 & 25	Appendix L & AA
9. Noise from new or upgraded public roads should be assessed using the Environmental Criteria for road Traffic Noise (EPA, 1999).	Acoustics	NA	NA
Waste, chemicals and hazardous materials	•		•
The EA should identify all wastes to be generated by all aspects of the project and identify procedures for the handling and management of all wastes produced.	Hazards/waste	Chapter 18, 21 & 34	Appendix R
Assessment of the potential for acid mine drainage from acid forming materials should be assessed and management/mitigation measures identified.	Geochemical/surf	Chapter 18, 21 & 34	Appendix R
Management actions for tailings material during processing should be identified, including actions to prevent potential impacts to groundwater, surface water or any other environmental aspect.	TSF Design, surface and groundwater	Chapters & 9	Appendix D, J & K
Provide details of the quantity and type of both liquid and non-liquid waste generated, handled, processed or disposed of at the premises. Wastes must be classified according to the Waste Classification Guidelines (EPA 2014).	General	Chapters 2, 21 & 34	Appendix D
Provide details of how waste will be handled and managed onsite to minimise pollution, including:	General	Chapters 2, 21 & 34	-
a) stockpile location and management	General	Chapter 2 (waste rock)	-
labelling of stockpiles for identification, ensuring that all waste is clearly identified and stockpiled separately from other types of material (especially the separation of any contaminated and non-contaminated waste).	General	Chapter 2 (waste rock)	-
proposed height limits for all waste to reduce the potential for dust and odour	General	Chapter 2 (waste rock)	-
procedures for minimising the movement of waste around the site and double handling	General	Chapter 2 (waste rock)	-
measures to minimise leaching from stockpiles into the surrounding environment, such as sediment fencing, geofabric, liners etc.	General	Chapters 2 (waste rock) & 9	Appendix J
b) Provide details of waste rock emplacement areas with particular attention to:	General	Chapter 2 (waste rock)	-
 the quantity of waste rock likely to be generated	General	Chapter 2 (waste rock)	-

ŗ	proposed strategies for the handling, reuse/recycling and disposal of waste rock	General	Chapter 2 (waste rock)	-
i	dentification of the history of the waste rock and whether there is any likelihood of contaminated material	Geochemical/surf	Chapter 2 (waste rock)	Appendix G
a	nd if so, measures for the management of any contaminated material and	ace water and		
		groundwater		
c	lesignation of transport routes for the transport of waste rock	NA	NA	NA
c	letails of procedures for the assessment, handling, storage, transport and disposal of all hazardous waste	General	Chapter 18, 21 & 34	Appendix R
lι	ised, stored, processed or disposed of at the site, in addition to the requirements for liquid and non-liquid			
	vastes.			
c	letails of the type and quantity of any chemical substances (including hydrocarbon (oils and fuels,	General	Chapter 18	Appendix R
E	explosives etc). To be used or stored and describe arrangements for their safe use and storage.			
S	oils			
1	An assessment of potential impacts on soil and land resources should be undertaken, being guided by Soil	Soil	Chapter 7 & 23	Appendix H
a	nd Landscape Issues in Environmental Impact Assessment (DLWC 2000). The nature and extent of any			
s	ignificant impacts should be identified. Particular attention should be given to:			
S	oil erosion and sediment transport- in accordance with Managing Urban Stormwater: Soils and	Soil	Chapter 7 & 23	Appendix H
	Construction Vol.1 (Landcom 2004) and Vol.2 (installation of services, waste landfills, unsealed roads, main			
r	oads, mine quarries) (DECC 2008).			
2	. A description of the mitigation and management options that will be used to prevent, control, abate or	Soil	Chapter 7 & 23	Appendix H
r	ninimise identified soil and land resource impacts associated with the project. This should include an			
a	ssessment of the effectiveness and reliability of the measures and any residual impacts after these			
r	neasures are implemented.			
١	Vater			
Т	he environmental outcomes of the project in relation to water should be that: there is no pollution of	Surface water	Chapter 9 & 24	Appendix J & X
V	vaters (Including surface and groundwater); and polluted water (including process/tailings waters, wash			
c	lown waters, polluted stormwater or sewerage) is captured onsite and collected, treated and beneficially			
r	eused, where safe and practical to do so.			
Τ	he EA should document the measures that will achieve the above outcomes in the construction, operation	Surface water	Chapter 9 & 24	Appendix J & X
a	nd post operations phases of the project.			
	Construction activities will need to demonstrate best practice sediment and erosion control and	Surface water	Chapter 9 & 24	Appendix J & X
r	nanagement in accordance with the reference document Managing Urban Stormwater: Soils and			
	Construction (NSW Landcom)			
1	. describe the project including position of any intakes and discharges, volumes, water quality and	Surface water	Chapter 9 & 24	Appendix J & X
	requency of all water discharges			
2	demonstrate that all practical options to avoid discharge have been implemented and environmental	Surface water	Chapter 9 & 24	Appendix J & X
	mpact minimised where discharge is necessary.			
3	i. include a water balance for the including water requirements (quantity, quality and source(s)) and	Surface water	Chapter 9 & 24	Appendix J
ļr	proposed storm and wastewater disposal, including type, volumes, proposed treatment and management			
l _r	nethods and re-use options.			

4. describe existing surface and groundwater quality. An assessment needs to be undertaken for any ware resource likely to be affected by the proposal.	ater Surface water and groundwater	Chapter 9 & 24	Appendix J, K & X
5. describe any drainage lines, creek lines, etc that will be impacted by the project	Surface water	Chapter 9 & 24	Appendix J & X
6. State the Water Quality Objectives for the receiving waters relevant to the proposal. These refer to the community's agreed environmental values and human uses endorsed by the NSW Government as goals ambient waters. Where groundwater may be impacted the assessment should identify appropriate groundwater environmental values.		Chapter 9 & 24	Appendix J & X
7. State the indicators and associated trigger values or criteria for the identified environmental values. I information should be sourced from the ANZECC (2000) Guidelines for Fresh and Marine Water Quality.		Chapter 9 & 24	Appendix J & X
8. State any locally specific objectives, criteria or targets which have been endorsed by the NSW Government.	NA	NA	NA
Impact Assessment	•	•	•
 Describe the nature and degree of impact that any proposed discharges will have on the receiving environment 	Surface water and groundwater	Chapter 9 & 24	Appendix J, K & X
10. Whether the project will significantly adversely affect the environment or cause avoidable erosion, siltation, destruction of riparian vegetation or a reduction in the stability of river banks or watercourses	Surface water	Chapter 9 & 24	Appendix J & X
11. Identify potential impacts on watercourses and the management/mitigation measures that will be implemented where mining activities occur in proximity to or within a watercourse.	Surface water	Chapter 9 & 25	Appendix J & X
12. Assess impacts against the relevant ambient water quality outcomes. Demonstrate how the propose will be designed and operated to: protect the Water Quality Objectives for receiving waters where they currently being achieved and contribute towards achievement of the Water Quality Objectives over tim where they are not currently being achieved.	are	Chapter 9 & 26	Appendix J & X
13. Assess impacts on groundwater and groundwater dependent ecosystems	Groundwater and	Chapters 9, 13, 24 & 27	Appendix K, N, Y &
14. Describe in detail how stormwater will be managed both during and after construction	Surface water	Chapter 9 & 24	Appendix J & X
15. Provide detailed water management strategies for all disturbance areas, paying particular attention the waste rock emplacement areas and potential impacts on groundwater and offsite surface water resources including particular reference to the management of channel and overland flows into and wit the disturbance area.	and groundwater	Chapter 2, 9 & 27	Appendix J, K & X
16. Provide plans for any proposed relocation/realignment of all creeks and/or drainage lines including design, timelines and completion criteria and sufficient evidence to demonstrate that the proposed plan are achievable, reasonable and feasible in the short and long term. Monitoring		Chapter 2 & 22	Appendix J & U
17. Describe how predicted impacts will be monitored and assessed over time	Surface water	Chapter 9 & 24	
117. Describe now predicted impacts will be monitored and assessed over time	and groundwater	•	

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Use of public roads/crown roads		· ·	!	!						
		Traffic &	Chapter 17 & 30	Appendix Q & AA						
		Traffic/General	Chapter 5, Chapter 17 & 30	Appendix, A, Q & A						
Increased truck traffic levels on main roads		Traffic &	Chapter 17 & 30	Appendix Q & AA						
Truck traffic levels and impact upon local roads	S	Traffic &	Chapter 17 & 30	Appendix Q & AA						

	Site land Management Strategy	Soils	Chapter 7 & 23	Appendix H
	Visual Screening	Visual	Chapter 19	Appendix S
	Rehabilitation strategy	Rehabilitation	Chapter 22 & 35	Appendix U
	Future rehabilitation options for the site	Rehabilitation	Chapter 22 & 35	Appendix U
	9. Environmental risk assessment and public safety, with particular reference to the impact of ore	General/hazard		
	processing and storage of mine waste materials in tailing dams	and		
		risk/water/tailing	Chapter 2 & 9	Appendix D, F, J & K
	10. Environmental monitoring	Water, ecology,	Parts D & E	Appendices G - EE
		aquatic ecology,		
	11. Flora and Fauna Assessment	Ecology	Chapter 13 & 27	Appendix N & Y
DOI - Water				
	Annual volumes of surface water and groundwater proposed to be taken by the activity (including through	Surface water,	Chapter 9 & 24	Appendix J & K, X
	pit inflows and direct capture from storages) from each surface and groundwater source as defined by the	groundwater		
	relevant water sharing plan (WSP). This is recognised as a key issue for this project as the Department is			
	aware of limitations in available surface water entitlement within the relevant water source			
<u> </u>	The identification of an adequate and secure water supply for the life of the project. Confirmation that	Surface water,	Chapter 2, 9 & 24	Appendix E, J & K, X
	water can be sourced from an appropriately authorised and reliable supply. This is to include an assessment	· ·	Chapter 2, 3 & 24	Appendix L, J & K, X
	of the current market depth where water entitlement is required to be purchased.	groundwater		
	of the current market depth where water entitlement is required to se parentased.			
	A detailed and consolidated site water balance and proposed water management infrastructure	Surface water	Chapter 9	Appendix J
	Assessment of impacts on surface and groundwater sources (both quality and quantity), related	Surface water,	Chapter 9 & 24	Appendix J & K, X
	infrastructure, adjacent licensed water users, basic landholder rights, watercourses, riparian land and	groundwater		
	groundwater dependent ecosystems and measures proposed to reduce and mitigate these impacts			
<u> </u>	Assessment of the ecological value of the riparian areas and any groundwater dependent ecosystems to be	Ecology and	Chapter 9, 13, 24 & 27	Appendix K, N, Y & X
	impacted within the disturbance footprint and potential impact zone of the project	groundwater	Chapter 3, 13, 2 \(\alpha 2 \)	/ Appendix N, N, N & X
		8		
	Assessment of the hydrological characteristics of the site and downstream and an impact assessment of the	Surface water	Chapter 9	Appendix J
	project on downstream water users and the environment. An assessment over wet, dry and average periods			
	will be required. Impacts to water supply from Carcoar Dam and riparian and licensed water users will need			
	to be addressed.			
	An assessment of risk and potential impacts to downstream surface and groundwater users and the	Surface water,	Chapter 2, 6 & 9	Appendix D, F, J & K
	environment due to the proposed location of a Tailings Storage Facility (TSF) on the headwaters of the	groundwater, TSF		
	Belubula River. The ability to effectively monitor and apply mitigation measures to potential impacts is of	design		
I	critical concern due to no buffer between the TSF and the watercourse and the potential for interaction			
	with the fractured groundwater system which increases the uncertainty of flow paths. The risk assessment	1	1	
	· · · · · · · · · · · · · · · · · · ·			
	should clearly identify the users and the water source at risk and consider the ability to rehabilitate if seepage/TSF failure occurs and the associated time period.			

	Key policies for the project to be assessed against includes; the NSW Aquifer Interference Policy (2012) using DoI Water's assessment framework, the "Guidelines for Controlled Activities on Waterfront Land (NRAR 2018)" and the Harvestable Right provisions of the Water Management Act 2000	Surface water & groundwater	Chapter 9 & 24	Appendix J, K & X
	An assessment against the rules of the groundwater and surface water sharing plans relevant to the site	Surface water & groundwater	Chapter 9 & 24	Appendix J, K & X
	Full technical details and data of all surface and groundwater modelling and an independent peer review	Surface water & groundwater	Chapter 9	Appendix J, K
	Proposed management and disposal of produced or incidental water	Surface water &	Chapter 9 & 24	Appendix J, K & X
	Proposed surface and groundwater monitoring activities and methodologies	Surface water &	Chapter 9 & 24	Appendix J & K
	Consideration of relevant policies and guidelines	Surface water &	Chapter 9 & 24	Appendix J & K
	A statement of where each element of the SEARs is addressed in the EIS in the form of a table.	Surface water &	Chapter 1, 9 & 24	Appendix B, J & K
- Fisheries			, , , , ,	The same
	The EIS should include an assessment of the impacts on aquatic biodiversity and the requirement for aquatic biodiversity offsets as per the following link: www.environment.nsw.gov.au/resources/biodiversity/14817agoffs.pdf.	Aquatic ecology	Chapter 14 & 27	Appendix O & Y
	The EIS should address impacts on Key Fish Habitats (Third order streams or larger under the Strahler Stream Order System) such as the Belubula River (Strahler fifth order stream), Tributary F (Strahler fourth order stream), and an unnamed Tributary (Strahler third order stream).	Aquatic ecology	Chapter 14	Appendix O
	Conduct an aquatic ecological assessment and address impacts to key Fisheries-related issues including: Aquatic Biodiversity; Dams, Waterway Crossings & Barriers to Fish Passage; Threatened Species, populations and ecological communities and Riparian Buffer Zones).	Aquatic ecology	Chapter 14 & 27	Appendix O & Y
	The aquatic ecological assessment should include the following information:			
	A recent aerial photograph (preferably colour), map or GIS of the locality which maps the key fish habitat of the development site, and the waterway classes as defined in Tables 1 and 2 of the Policy & Guidelines document above.	Aquatic ecology	Chapter 14 & 27	Appendix O & Y
		Aquatic ecology	Chapter 14 & 27	Appendix O & Y
	Description and quantification of aquatic and riparian vegetation should be presented and mapped. This should include an assessment of the extent and condition of riparian vegetation and the extent and condition of freshwater aquatic vegetation in the presence of significant habitat features (eg gravel beds, snags, reed beds etc)	Aquatic ecology	Chapter 14 & 27	Appendix O & Y
	Quantification of the extent of aquatic and riparian habitat removal or modification which will result from the proposed development, and impacts on fish passage.	Aquatic ecology	Chapter 14	Appendix O
	Determination of aquatic biodiversity offsets required (see NSW Biodiversity Offsets Policy for Major Projects, Fact Sheet: Aquatic Biodiversity) at http://www.environment.nsw.gov.au/resources/biodiversity/14817aqoffs.pdf.	-	Chapter 14	Appendix O
	Detailed maps outlining the proposed realignment of new waterways within the project area.	-	-	-
	Detailed maps outlining compensatory habitats and significant habitat features that will be created to offset the loss of aquatic and riparian habitat.	-	-	-

	Described and the second secon		T	<u> </u>
	Detailed maps that outline and assess the geomorphic stability of the proposed realignments of the new	-	-	-
	waterways including re-creation of the sinuosity/complexity of the new waterways.			
	Details of the location of all waterways crossings and construction designs, such as bridges or culverts, mine	-	-	-
	access tracks, or pipeline waterway crossings.			
	Details of the location of all waterway realignments, including a detailed rehabilitation plan for the aquatic	-	-	-
	environment and the adjacent riparian zone, and a timetable for construction of the proposal with details of			
	various phases of construction.			
	Aspects of the management of the proposal, both during construction and after completion, which relate to	Aquatic ecology	Chapter 14	Appendix O
	impact minimisation eg Environment Management Plans.			
	DPI Fisheries will therefore require the negotiation of a compensatory habitat package through the use of	Aquatic ecology	Chapter 14	Appendix O
	aquatic biodiversity offsets and/or supplementary measures to ensure that such outcomes are achieved.			
	Watercourse diversions must emulate a natural meandering watercourse that provides for fish passage	-	-	-
	within the diversion and also at the confluence to other tributaries that are Key Fish Habitat such as			
	Tributary F (Strahler fourth order stream) and an unnamed Tributary (Strahler third order stream)			
	connecting to the Belubula River diversion from the eastern side.			
	Existing and proposed waterway crossings should comply with DPI Fisheries Guideline	No water way	-	Appendix O
	document: Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway	crossings		
	Crossings. In particular, a proposed new realignment of Dungeon Road will likely involve a	proposed		
	waterway crossing over the Belubula River, and the Mine access road will involve a waterway			
	crossing over Tributary A. The closure of existing sections of Dungeon Road should enable the			
	removal of waterway crossings that may potentially impede fish passage in Key Fish Habitats			
	such as the existing crossing on Tributary A.			
	The "Pipeline Development" and related waterway crossings should be assessed in the EIS. DPI	Aquatic ecology	Chapter 27	Appendix Y
	Fisheries should be consulted with regards to any temporary measures that will result in blocking			
	fish passage. This includes coffer dams, temporary access tracks or redirecting flows whilst the			
	pipeline is constructed.			
	The proposal should include a threatened aquatic species assessment (as per part 7A Fisheries	Aquatic ecology	Chapter 14 & 27	Appendix O & Y
	Management Act 1994) to address whether there are likely to be any significant impacts on listed			
	threatened species, populations or ecological communities listed under the Fisheries			
	Management Act 1994.			
	Riparian buffer zones should be protected in accordance with the DPI Fisheries Policy and	Aquatic ecology	Chapter 14 & 27	Appendix O & Y
	Guidelines for Fish Habitat Conservation and Management (Update 2013) available on the	-		
	Department's website at http://www.dpi.nsw.gov.au/fishing/habitat/publications/pubs/fish-			
	habitatconservation.			
	Adequate riparian buffer zones should be established adjacent to the Belubula River and its			
	tributaries in order to minimise the indirect impacts of the development on waterways.			
Dol Crown lan		1	· ·	1
	Describe the impacts on Crown land and Crown waterways, namely Dungeon Creek and the Belubula River	Surface water	Chapters 5 & 9	Appendix J
	located within and adjacent to the Project and the mitigation measures to minimise impacts			

will be impacted. The applicant is required to consult with Crown Lands to determine the purchase of Crown waterway that is impacted. The applicant is required to consult with Crown Lands to determine if any further action is required in regards to easements or tenures to secure access to Crown parcels. The applicant is required to consult with Stakeholders that manage or tenure Crown Lands. The applicant is required to consult with stakeholders that manage or tenure Crown Lands. The applicant is required to consult with stakeholders that manage or tenure Crown Lands. The applicant is required to consult with stakeholders that manage or tenure Crown Lands. The applicant is required to consult with stakeholders that manage or tenure Crown Lands. The proposal is located on and adjacent to agricultural land, including mapped Biophysical Strategic Agricultural Land (BSAL)and is. The EIS should include preparation of an Agriculture Impact Statement. DPE Resources & Geoscience Division The general requirement for the Environmental Impact Statement (EIS) to include (amongst other aspects of the project) a full description of the development; (including that of the geology and the resource); a strategic justification of the development; a list of approvals (including a mining lease) that must be obtained before the development can commence; a consideration of the development against all relevant planning instruments (including the Mining SEPP); and the suitability of the sites with respect to potential land use conflicts with existing and future surrounding land uses. Pipeline Corridor The Proponent should consult with holders of existing mining and exploration authorities intersected by the ground and the suitability of the sites with respect to potential resource sterilisation in relation to any proposed biodiversity offsets areas. The EIS must therefore clearly illustrate the location (including offsite locations) of any biodiversity offsets being considered for the project (including both the mine		The conditional is used to sense the right Converted to determine the classes and according to the conditional	Canaral	Chantan 4	1
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a consideration of the development against all relevant planning instruments (including the Mining SEPP); and the suitability of the sites with respect to potential land use conflicts with existing and future surrounding land uses. Pipeline Corridor The Proponent should consult with holders of existing mining and exploration authorities intersected by the corridor. Evidence of consultation should be included in the EIS. Biodiversity Offsets The Division requests that the Proponent consider potential resource sterilisation in relation to any proposed biodiversity offsets areas. The EIS must therefore clearly illustrate the location (including offsite locations) of any biodiversity offsets being considered for the project (including both the mine site and pipe line corridor) and their spatial relationship to known and potential mineral and construction material resources and existing		a strategic justification of the development;	General	Chapter 39	-
and the suitability of the sites with respect to potential land use conflicts with existing and future surrounding land uses. Pipeline Corridor The Proponent should consult with holders of existing mining and exploration authorities intersected by the corridor. Evidence of consultation should be included in the EIS. Biodiversity Offsets The Division requests that the Proponent consider potential resource sterilisation in relation to any proposed biodiversity offsets areas. The EIS must therefore clearly illustrate the location (including offsite locations) of any biodiversity offsets being considered for the project (including both the mine site and pipe line corridor) and their spatial relationship to known and potential mineral and construction material resources and existing		a list of approvals (including a mining lease) that must be obtained before the development can commence;	General	Chapter 3	-
surrounding land uses. Pipeline Corridor The Proponent should consult with holders of existing mining and exploration authorities intersected by the corridor. Evidence of consultation should be included in the EIS. Biodiversity Offsets The Division requests that the Proponent consider potential resource sterilisation in relation to any proposed biodiversity offsets areas. Ecology Chapter 13 Appendix N The EIS must therefore clearly illustrate the location (including offsite locations) of any biodiversity offsets being considered for the project (including both the mine site and pipe line corridor) and their spatial relationship to known and potential mineral and construction material resources and existing		a consideration of the development against all relevant planning instruments (including the Mining SEPP);	General	Chapter 3	-
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corridor. Evidence of consultation should be included in the EIS. Biodiversity Offsets The Division requests that the Proponent consider potential resource sterilisation in relation to any proposed biodiversity offsets areas. Ecology Chapter 13 Appendix N The EIS must therefore clearly illustrate the location (including offsite locations) of any biodiversity offsets being considered for the project (including both the mine site and pipe line corridor) and their spatial relationship to known and potential mineral and construction material resources and existing		Pipeline Corridor	•		•
The Division requests that the Proponent consider potential resource sterilisation in relation to any proposed biodiversity offsets areas. The EIS must therefore clearly illustrate the location (including offsite locations) of any biodiversity offsets being considered for the project (including both the mine site and pipe line corridor) and their spatial relationship to known and potential mineral and construction material resources and existing			General	Chapter 4	-
proposed biodiversity offsets areas. The EIS must therefore clearly illustrate the location (including offsite locations) of any biodiversity offsets being considered for the project (including both the mine site and pipe line corridor) and their spatial relationship to known and potential mineral and construction material resources and existing		Biodiversity Offsets	•		•
offsets being considered for the project (including both the mine site and pipe line corridor) and their spatial relationship to known and potential mineral and construction material resources and existing		· · · · · · · · · · · · · · · · · · ·	Ecology	Chapter 13	Appendix N
		offsets being considered for the project (including both the mine site and pipe line corridor) and their spatial relationship to known and potential mineral and construction material resources and existing	Ecology	Chapter 13	Appendix N
The Division requests consultation with both GSNSW and holders of existing mining and exploration authorities affected by planned biodiversity offsets. Evidence of consultation should be included in the EIS. Ecology Chapter 4 Appendix N		authorities affected by planned biodiversity offsets. Evidence of consultation should be included in	Ecology	Chapter 4	Appendix N
DPE - Resources Regulator	DPE - Resourc	es Regulator			•

Post-mining land use	Rehabilitation	Chapter 22	Appendix U
(a) identification and assessment of post-mining land use options;	Rehabilitation	Chapter 22	Appendix U
(b) identification and justification of the preferred post-mining land use outcome(s), including a discussion of how the final land use(s) are aligned with relevant local and regional strategic land use objectives;	Rehabilitation and closure	Chapter 22 & 35	Appendix U
(c) identification of how the rehabilitation of the project will relate to the rehabilitation strategies of neighbouring mines within the region, with a particular emphasis on the coordination of rehabilitation activities along common boundary areas;	Rehabilitation and closure	Chapter 22 & 35	Appendix U
Rehabilitation objectives and domains	Rehabilitation	Chapter 22 & 35	Appendix U
(d) inclusion of a set of project rehabilitation objectives and completion criteria that clearly define the outcomes required to achieve the post-mining land use for each domain. Completion criteria should be specific, measurable, realistic and time-bound. If necessary, objective criteria may be presented as ranges;	Rehabilitation and closure	Chapter 22 & 35	Appendix U
Rehabilitation Methodology	Rehabilitation	Chapter 22 & 35	Appendix U
(e) details regarding the rehabilitation methods for disturbed areas and expected time frames for each stage of the rehabilitation process;	ge Rehabilitation and closure	Chapter 22 & 35	Appendix U
(f) mine layout and scheduling, including maximising opportunities for progressive final rehabilitation. The final rehabilitation schedule should be mapped against key production milestones (ie ROM tonnes) of the mine layout sequence before being translated to indicative timeframes throughout the mine life. The min plan should maximise opportunities for progressive rehabilitation;	Rehabilitation and closure	Chapter 22 & 35	Appendix U
Conceptual Final Landform Design	Rehabilitation	Chapter 22 & 35	Appendix U
(g) inclusion of a drawing at an appropriate scale identifying key attributes of the final landform, including final landform contours and the location of the proposed final land use(s);	Rehabilitation and closure	Chapter 22 & 35	Appendix U
Monitoring and Research	Rehabilitation	Chapter 22 & 35	Appendix U
(h) outlining the monitoring programs that will be implemented to assess how rehabilitation is trending towards the nominated land use objectives and completion criteria;	Rehabilitation and closure	Chapter 22 & 35	Appendix U
(i) details of the process for triggering intervention and adaptive management measures to address potential adverse results as well as continuously improve rehabilitation practices;	Rehabilitation and closure	Chapter 22 & 35	Appendix U
(j) outlining any proposed rehabilitation research programs and trials, including their objectives. This shoul include details of how the outcomes of research are considered as part of the ongoing review and improvement of rehabilitation practices;	d Rehabilitation and closure	Chapter 22 & 35	Appendix U
Post-closure maintenance	Rehabilitation	Chapter 22 & 35	Appendix U
(k) description of how post-rehabilitation areas will be actively managed and maintained in accordance wit		Chapter 22 & 35	Appendix U
the intended land use(s) in order to demonstrate progress towards meeting the rehabilitation objectives	and closure		
	Rehabilitation	Chapter 22 & 35	Appendix U

(i) evaluation of the likely effectiveness of the proposed rehabilitation techniques against the rehabilitation	Rehabilitation	Chapter 22 & 35	Appendix U
objectives and completion criteria;	and closure		, ppenam c
(ii) an assessment and life of mine management strategy of the potential for geochemical constraints to	Rehabilitation	Chapter 22 & 35	Appendix U
rehabilitation (eg acid rock drainage, spontaneous combustion etc), particularly associated with the	and closure		1, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1
management of overburden/interburden and reject material;			
(iii) the processes that will be implemented throughout the mine life to identify and appropriately manage	Rehabilitation	Chapter 22 & 35	Appendix U
geochemical risks that may affect the ability to achieve sustainable rehabilitation outcomes;	and closure		' '
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
(iv) a life of mine tailings management strategy, which details measures to be implemented to avoid the	Rehabilitation	Chapter 22 & 35	Appendix U
exposure of tailings material that may cause environmental risk, as well as promote geotechnical stability of	and closure		
the rehabilitated landform; and			
(v) existing and surrounding landforms (showing contours and slopes) and how similar characteristics can be	Rehabilitation	Chapter 22 & 35	Appendix U
incorporated into the post-mining final landform design. This should include an evaluation of how key	and closure	·	
geomorphological characteristics evident in stable landforms within the natural landscape can be adapted			
to the materials and other constraints associated with the site.			
(m) Where a void is proposed to remain as part of the final landform, include:	Rehabilitation	Chapter 22 & 35	Appendix U
(i) a constraints and opportunities analysis of final void options, including backfilling, to justify that the	Rehabilitation	Chapter 22 & 35	Appendix U
proposed design is the most feasible and environmentally sustainable option to minimise the sterilisation of	and closure		'
land post-mining;			
(ii) a preliminary geotechnical assessment to identify the likely long term stability risks associated with the	Rehabilitation	Chapter 22 & 35	Appendix U
proposed remaining high wall(s) and low wall(s) along with associated measures that will be required to	and closure		
minimise potential risks to public safety; and			
(iii) outcomes of the surface and groundwater assessments in relation to the likely final water level in the	Rehabilitation	Chapter 22 & 35	Appendix U
void. This should include an assessment of the potential for fill and spill along with measures required be	and closure		
implemented to minimise associated impacts to the environment and downstream water users.			
(a) Where the arise is declared a made and a sality and	NA	Ch + 22 0 25	A 15 11
(n) Where the mine includes underground workings:		Chapter 22 & 35	Appendix U
(i) determine (with reference to the groundwater assessment) the likelihood and associated impacts of	NA	Chapter 22 & 35	Appendix U
groundwater accumulating and subsequently discharging (eg acid or neutral mine drainage) from the			
underground workings post cessation of mining; and			
(ii) consideration of the likely controls required to either prevent or mitigate against these risks as part of	NA	Chapter 22 & 35	Appendix U
the closure plan for the site.			
(o) consideration of the controls likely to be required to either prevent or mitigate against rehabilitation	Rehabilitation	Chapter 22 & 35	Appendix U
risks as part of the closure plan for the site;	and closure		
(p) where an ecological land use is proposed, demonstrate how the revegetation strategy (eg seed mix,	Rehabilitation	Chapter 22 & 35	Appendix U
habitat features, corridor width etc) has been developed in consideration of the target vegetation	and closure		
community(s);			
(q) where the intended land use is agriculture, demonstrate that the landscape, vegetation and soil will be	Soils &	Chapter 22 & 35	Appendix U
returned to a condition capable of supporting this; and	Rehabilitation		
(r) consider any relevant government policies.	Rehabilitation	Chapter 22 & 35	Appendix U

	Provide a brief description of risks (taken directly from Project Detail & Assessment section)	Rehabilitation	Chapter 22 & 35	Appendix U
	(s) closure assessment of tailings storage facility	Rehabilitation	Chapter 22 & 35	Appendix U
	(i) provide a detailed options analysis of tailings treatment and disposal methods that may be applicable to	TSF design &	Chapter 2 & 6	Appendix U
	the type of tailings generated from this project. This analysis must provide a clear justification of the	rehabilitation and		
	preferred tailing treatment to demonstrate the feasibility of achieving low maintenance, safe stable non-	closures		
	polluting rehabilitation outcomes, with specific reference to long term seepage management.			
	(ii) provide both operational and post closure site water balance modelling for the tailings storage facility	Surface water	Chapter 9	Appendix J
	catchment. The water balance modelling must consider both volume and quality of water contained and in			
	discharge/seepage (both surface and groundwater systems).			
	(iii) final capping material concept design, source of capping material and long term design considerations,	Rehabilitation	Chapter 22	Appendix U
	taking into account the required performance of the capping material long term and likely environmental	and closure		
	risks ie consolidation of underlying tailing materials.			
EH - Heri	tage Council			
	Prepare a Heritage Impact Statement (HIS) or Statement of Heritage Impact (SOHI) (in accordance with the	Heritage	Chapter 16, 29	Appendix P & Z
	guidelines in the NSW Heritage Manual) which identifies: all heritage items within and near the site,			
	including built heritage, landscapes and archaeology, detailed mapping of these items and assessment of			
	why the items and site(s) are of heritage significance; and			
	detailed mitigation measures to offset potential impacts on heritage values.	Heritage	Chapter 16, 29	Appendix P & Z
	The HIS/SOHI must assess heritage impacts of the proposed works on the heritage	Heritage	Chapter 16, 29	Appendix P & Z
	significance of the site; and the visual impacts of the proposed development on views to			
	and from surrounding heritage items.			
	A historic archaeological assessment is to be prepared by a suitably qualified historical archaeologist in	Heritage	Chapter 16, 29	Appendix P & Z
	accordance with the documents: Archaeological Assessments Guidelines (1996), Assessing Significance for			
	Historical Archaeological Sites and 'Relics' (2009)			
	This assessment should identify what relics, if any, are likely to be present, assess their historic significance	Heritage	Chapter 16, 29	Appendix P & Z
	and consider the impacts from the proposal on this potential heritage resource.			
	Where harm is likely to occur, any mitigation measures would avoid or ameliorate the impact with specific	Heritage	Chapter 16, 29	Appendix P & Z
	emphasis on in situ conservation and interpretation where State significant or substantially intact relics are			
	identified.			
	If harm cannot be avoided, an appropriate Research Design and Excavation Methodology must also be	Heritage	Chapter 16, 29	Appendix P & Z
	prepared to guide any proposed excavations. The methodology should include appropriate actions to guide			
	archaeological test excavation, salvage or monitoring; stop work provisions should relics be found;			
	appropriate recording, storage and public display provisions for relics following archaeological			
	investigations.			
EH - Biod	iversity- Mine Site			
	1. Biodiversity impacts related to the proposed McPhillamys Gold Project are to be assessed and	Ecology	Chapter 13	Appendix N
	documented in accordance with the Framework for Biodiversity Assessment, unless otherwise agreed by			
	OEH, by a person accredited in accordance with s142B(1)(c) of the Threatened Species Conservation Act			
	1995			

	2. A strategy to offset any residual impacts of the development in accordance with the NSW Biodiversity	Ecology	Chapter 13	Appendix N
	Offset Policy for Major Projects			
EH - Biod	iversity - Pipeline			
	3. Biodiversity impacts related to the proposed McPhillamys Gold Project are to be assessed in accordance	Ecology	Chapter 27	Appendix X
	with the Biodiversity Assessment Method and documented in a Biodiversity Development Assessment			
	Report (BDAR). The BDAR must include information in the form detailed in the Biodiversity Conservation Act			
	2016 (s 6.12) Biodiversity Conservation Regulation 2017 (s. 6.8) and Biodiversity Assessment Method			
	including details of the measures proposed to address the offset obligation as follows:			
	the total number and classes of biodiversity credits required to be retired for the development/project	Ecology	Chapter 27	Appendix X
	the number and classes of like-for-like biodiversity credits proposed to be retired	Ecology	Chapter 27	Appendix X
	the number and classes of biodiversity credits proposed to be retired in accordance with the variation rules	Ecology	Chapter 27	Appendix X
	any proposal to fund a biodiversity conservation action	Ecology	Chapter 27	Appendix X
	any proposal to conduct ecological rehabilitation (if a mining project)	Ecology	Chapter 27	Appendix X
	any proposal to make a payment to the Biodiversity Conservation Fund (FUND)	Ecology	Chapter 27	Appendix X
	if requesting the application of the variation rules, the BDAR must contain details of what reasonable steps have been taken to attempt the required like-for-like biodiversity credits.	Ecology	Chapter 27	Appendix X
	, , ,	Ecology	Chapter 27	Appendix X
	Application for the Biodiversity Assessment Method Order 2017 under S6.10 of the Biodiversity			
	Conservation Act 2016.			
EH -Abor	iginal heritage	•	•	•
	4. The EIS must identify and describe the Aboriginal cultural heritage values that exist across the whole area	Heritage	Chapter 15, 28	Appendix P & Z
	that will be affected by the McPhillamys Gold Project and Document these in the EIS. This may include the			
	need for surface survey and test excavation. The identification of cultural heritage values should be guided			
	by the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (DECW, 2011)			
	and consultation with OEH regional officers.			
		Heritage	Chapter 15, 28	Appendix P & Z
	undertaken and documented in accordance with the Aboriginal Cultural heritage consultation requirements			
	for proponents 2010 (DECW). The significance of cultural heritage values for Aboriginal people who have a			
	cultural association with the land must be documented in the EIS.			
		Heritage	Chapter 15, 28	Appendix P & Z
	must demonstrate attempts to avoid impact upon cultural heritage values and identify any conservation			
	outcomes. Where impacts are unavoidable, the EIS must outline measures proposed to mitigate impacts.			
	Any objects recorded as part of the assessment must be documented and notified to OEH.	1		1

	7. The EIS must provide a heritage assessment including but not limited to an assessment of impacts to	Heritage	Chapter 16, 29	Appendix P & Z
	State and local heritage including conservation areas, natural heritage areas, places of Aboriginal heritage			
	value, buildings, works, relics, gardens, landscapes, views, trees should be assessed. Where impacts to State			
	or locally significant heritage items are identified, the assessment shall:			
	a. outline the proposed mitigation and management measures (including measures to avoid significant	Heritage	Chapter 16, 29	Appendix P & Z
	impacts and an evaluation of the effectiveness of the mitigation measures generally consistent with the NSW Heritage Manual (1996).			
	b. be undertaken by a suitably qualified heritage consultant(s) (note: where archaeological excavations are	Heritage	Chapter 16, 29	Appendix P & Z
	proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria).			
	c. include a statement of heritage impact for all heritage items (including significance assessment)	Heritage	Chapter 16, 29	Appendix P & Z
	d. consider impacts including, but not limited to, vibration, demolition, archaeological disturbance, altered	Heritage	Chapter 16, 29	Appendix P & Z
	historical arrangements and access, landscape and vistas and architectural noise treatment (as relevant), and			
	e. where potential archaeological impacts have been identified develop an appropriate archaeological	Heritage	Chapter 16, 29	Appendix P & Z
	assessment methodology, including research design, to guide physical archaeological test excavations			
	(terrestrial and maritime as relevant) and include the results of these test excavations.			
EH - Wat	er and soils	ļ.		
	8. The EIS must map the following features relevant to water and soils including:	Soils and water	Chapter 7, 9, 23 & 24	Appendix H & X
	a. Acid sulfate soils (Class 1, 2, 3 or 4 on the Acid Sulfate Soil Planning Map)	Soils	Chapter 7 & 23	Appendix H & T
	b. Rivers, streams, wetlands, estuaries (as described in s4.1 of the Biodiversity Assessment Method	Water	Chapter 9 & 24	Appendix J & K
	(Pipeline) and s.4.1 of the Framework for Biodiversity Assessment (Mine Site)).			
	c. Wetlands as described in s4.1 of the Biodiversity Assessment Method (Pipeline) and s.4.1 of the	Water	Chapter 9 & 24	Appendix J & K
	Framework for Biodiversity Assessment (Mine Site)			
	d. Groundwater	Groundwater	Chapter 9 & 24	Appendix J & K
	e. Groundwater dependent ecosystems	Ecology	Chapter 9 & 24	Appendix J & K
	f. Proposed intake and discharge locations	Surface water	Chapter 9 & 24	Appendix J & K
	9. The EIS must describe background conditions for any water resource likely to be affected by the	Surface water	Chapter 9 & 24	Appendix J & K
	McPhillamys Gold Project, including:	and groundwater		
	a. Existing surface and groundwater	Surface water	Chapter 9 & 24	Appendix J & K
		and groundwater		
	b. Hydrology, including volume, frequency and quality of discharges at proposed intake and discharge locations	Surface water	Chapter 9 & 24	Appendix J & K
	c. Water Quality Objectives (as endorsed by the NSW Government	Surface water	Chapter 9 & 24	Appendix J & K
	http://www.environment.nsw.gov.au/ieo/index.htm) including groundwater as appropriate that represent			
	the community's uses and values for the receiving waters.			

	d. Indicators and trigger values/criteria for the environmental values identified at (c) in accordance with the ANZECC (2000) Guidelines for Fresh and Marine Water Quality and/or local objectives, criteria or targets	Surface water	Chapter 9 & 24	Appendix J & K
	endorsed by the NSW Government.			
	10. The EIS must assess the impacts of the project on water quality, including:	Surface water	Chapter 9 & 24	Appendix J & K
	20. The Lib mast assess the impacts of the project on water quanty, morauling.	and groundwater	1 '	/ Appendix 3 & K
	a. The nature and degree of impact on receiving waters for both surface and groundwater demonstrating	Surface water	Chapter 9 & 24	Appendix J & K
	how the project protects the Water Quality Objectives where they are currently being achieved and	and groundwater		
	contributes towards achievement of the Water Quality Objectives over time where they are currently not			
	being achieved. This should include an assessment of the mitigating effects of proposed stormwater and			
	wastewater management during and after construction.			
	b. Identification of proposed monitoring of water quality	Surface water	Chapter 9 & 24	Appendix J & K
		and groundwater		
	11. The EIS must assess the impact of the project on hydrology, including:	Surface water	Chapter 9 & 24	Appendix J & K
		and groundwater		
	a. Water balance including quantity, quality and source	Surface water	Chapter 9 & 24	Appendix J & K
		and groundwater		
	b. Effects to downstream rivers, wetlands, estuaries, marine waters and floodplain areas.	Surface water	Chapter 9 & 24	Appendix J & K
		and groundwater		
	c. Effects to downstream water-dependent fauna and flora including groundwater dependent ecosystems	Ecology	Chapter 9 & 24	Appendix J & K
	d. Impacts to natural processes and functions within rivers, wetlands, estuaries and floodplains that affect	Surface water	Chapter 9 & 24	Appendix J & K
	river system and landscape health such as nutrient flow, aquatic connectivity and access to habitat for	and groundwater		
	spawning and refuge (eg river benches).			
	e. Changes to environmental water availability, both regulated/licensed and unregulated/rules based	Surface water	Chapter 9 & 24	Appendix J & K
	sources of such water.	and groundwater		
	f. Mitigating effects of proposed stormwater and wastewater management during and after construction on		Chapter 9 & 24	Appendix J & K
	hydrological attributes such as volumes, flow rates, management methods and re-use options.	and groundwater		
	g. Identification of proposed monitoring of hydrological attributes.	Surface water	Chapter 9 & 24	Appendix J & K
		and groundwater		
H Floodi	ng			
	12. The EIS must map the following features relevant to flooding as described in the Floodplain	Surface water	Chapter 9	Appendix J
	Development Manual 2005 (NSW Government 2005) including:			
	a. Flood prone land	Surface water	Chapter 9	Appendix J
	b. Flood planning area, the area below the flood planning level	Surface water	Chapter 9	Appendix J
	c. Hydraulic categorisation (floodways and flood storage areas).	Surface water	Chapter 9	Appendix J
	13. The EIS must describe flood assessment and modelling undertaken in determining the design flood	Surface water	Chapter 9	Appendix J
	levels for events, including a minimum of the 1 in 10 year, 1 in 100 year flood levels and the probably			
	maximum flood, or in an equivalent extreme event			

14. The EIS must model the effect of the proposed project (including fill) on the flood behaviour under the following scenarios:	Surface water	Chapter 9	Appendix J
a. Current flood behaviour for a range of design events as identified in 11 above. This includes the 1 in 200 and 1 in 500 year flood events as proxies for assessing sensitivity to an increase in rainfall intensity of flood producing rainfall events due to climate change	Surface water	Chapter 9	Appendix J
15. Modelling in the EIS must consider and document:			
a. The impact on existing flood behaviour for a full range of flood events including up to the probable maximum flood	Surface water	Assessed in accordance with consultation with OEH	-
b. Impacts of the development on flood behaviour resulting in detrimental changes in potential flood affection of other developments or land. This may include redirection of flow, flow velocities, flood levels, hazards and hydraulic categories.	Surface water	Assessed in accordance with consultation with OEH	-
c. Relevant provisions of the NSW Floodplain Development Manual 2005.	Surface water	Assessed in accordance with consultation with OEH	Appendix J
16. The EIS must assess the impacts on the proposed project on flood behaviour, including:	Surface water	Assessed in accordance with consultation with OEH & Chapter 24	Appendix J
a. Whether there will be detrimental increases in the potential flood affection of other properties, assets and infrastructure	Surface water	Assessed in accordance with consultation with OEH & Chapter 24	Appendix J
b. Consistency with Council floodplain risk management plans	Surface water	Assessed in accordance with consultation with OEH & Chapter 24	Appendix J & X
c. Compatibility with the flood hazard of the land.	Surface water	Assessed in accordance with consultation with OEH & Chapter 24	Appendix J & X
d. Compatibility with the hydraulic functions of flow conveyance in floodways and storage in flood storage areas of the land.	Surface water	Assessed in accordance with consultation with OEH & Chapter 24	Appendix J & X
e. Whether there will be adverse effect to beneficial inundation of the floodplain environment on, adjacent to or downstream of the site.	Surface water	Assessed in accordance with consultation with OEH	-
f. Whether there will be direct or indirect increase in erosion, siltation, destruction of riparian vegetation or a reduction in the stability of river banks or watercourses.	Surface water	Assessed in accordance with consultation with OEH & Chapter 24	Appendix X
g. Any impacts the development may have upon existing community emergency management arrangement for flooding. These matters are to be discussed with the SES and Council.	s Surface water	Assessed in accordance with consultation with OEH	-
h. Whether the proposal incorporates specific measures to manage risk to life from flood. These matters are to be discussed with the SES and Council.	e Not applicable	-	-

	i. Emergency management, evacuation and access, and contingency measures for the development considering the full range or flood risk (based upon the probably maximum flood or equivalent extreme flood event). These matters are to be discussed with and have the support of Council and the SES.	Surface water	Assessed in accordance with consultation with OEH	-
	j. Any Impacts the development may have on the social and economic costs to the community as consequence of flooding.	Surface water	Assessed in accordance with consultation with OEH	-
VIS	A traffic impact study prepared in accordance with the methodology set out in Section 2 of the RTA's Guide to Traffic Generating Developments 2002, including:	Traffic	Chapter 17 & 30	Appendix Q & AA
	Hours and days of construction	Traffic	Chapter 17 & 30	Appendix Q & AA
	Schedule for phasing/staging of the project	Traffic	Chapter 17 & 30	Appendix Q & AA
	Traffic volumes:	Traffic	Chapter 17 & 30	Appendix Q & AA
	Existing background traffic	Traffic	Chapter 17 & 30	Appendix Q & AA
	Project-related traffic for each stage of the project including construction, operation and decommission	Traffic	Chapter 17 & 30	Appendix Q & AA
	Project cumulative traffic volumes.	Traffic	Chapter 17 & 30	Appendix Q & AA
	Traffic volumes are to also include a description of:	Traffic	Chapter 17 & 30	Appendix Q & AA
	ratio of light vehicles to heavy vehicles	Traffic	Chapter 17 & 30	Appendix Q & AA
	peak times for existing traffic	Traffic	Chapter 17 & 30	Appendix Q & AA
	peak times for project-related traffic	Traffic	Chapter 17 & 30	Appendix Q & AA
	transportation hours	Traffic	Chapter 17 & 30	Appendix Q & AA
	project-related traffic interaction with existing and projected background traffic,	Traffic	Chapter 17 & 30	Appendix Q & AA
	the origin, destination and routes for:	Traffic	Chapter 17 & 30	Appendix Q & AA
	employee and contractor light traffic	Traffic	Chapter 17 & 30	Appendix Q & AA
	heavy traffic	Traffic	Chapter 17 & 30	Appendix Q & AA
	over size and over mass traffic	Traffic	Chapter 17 & 30	Appendix Q & AA
	A description of all over size and over mass vehicles and the materials to be transported, including proposed travel routes	Traffic	Chapter 17 & 30	Appendix Q & AA
	The impact of traffic generation on the public road network and measures employed to ensure traffic efficiency and road safety during construction, operation and decommissioning of the project	Traffic	Chapter 17 & 30	Appendix Q & AA
	The need for improvements to the road network, and the improvements proposed such as road widening and intersection treatments, to cater for and mitigate the impact of project related traffic.	Traffic	Chapter 17 & 30	Appendix Q & AA

At the proposed mine location, the Mid Western Highway, pursuant to Section 49 of the Roads Act 1993 is a controlled access road. There are currently four agreed access points along the frontage to the Mid Western Highway with two being coincident. The proposed mine site entrance does not currently match any of the current locations. Once a new access point is agreed in consultation with Roads and Maritime and relevant		Chapter 17 & 30	Appendix Q & AA
stakeholders, the remaining current accesses should be removed. Scope for access by Emergency vehicles needs to be considered and catered for appropriately.			
Proposed road facilities, access and intersection treatments are to be identified and be in accordance with Austroads Guide to Road Design including Safe Intersection Sight Distance (SISD).	Traffic	Chapter 17 & 30	Appendix Q & AA
The layout of the internal road network, parking facilities and infrastructure within the project boundary	Traffic	Chapter 17 & 30	Appendix Q & AA
An assessment of the likely risks to public safety, in particular, transport and use of any dangerous goods, and in accordance with State Environmental Planning Policy No.33- Hazardous and Offensive Development and transporting reagents in accordance with the requirements of Australian Dangerous Goods Code and Australian Standard 4452 Storage and Handling of Toxic Substances.	Traffic	Chapter 17 & 30	Appendix Q & AA
Identification and assessment of potential impacts of mining operations, such as blasting, lighting, visual and drainage, including the pipeline development on the function and integrity of all affected roads.	Traffic	Chapter 17 & 30	Appendix Q & AA
The mine site will be visible to motorists using the Mid Western Highway as well as public vantage points to the south and west. Roads and Maritime will await further investigation into impacts of lighting from the site and potential mitigating measures such as establishing visual screens, construction of buildings and structures using non-reflective cladding and colours.	Traffic	Chapter 17 & 30	Appendix Q & AA
Local climate conditions that may affect road safety for mine related traffic during construction, operation and decommissioning of the project (e.g. fog, wet and dry weather, icy road conditions).	Traffic	Chapter 17 & 30	Appendix Q & AA
A Traffic Management Plan (TMP) developed in consultation with relevant councils and Roads and Maritime. The TMP is to identify and provide management strategies to manage the impacts to project related traffic, including:	Traffic	Chapter 17 & 30	Appendix Q & AA
Haulage of materials to site;	Traffic	Chapter 17 & 30	Appendix Q & AA
The management and coordination of construction and staff vehicle movements to and from site and measures to be employed to limit disruption to other motorists. The management of construction staff access to the work site is to include strategies and measures employed to manage the risks of driver fatigue, road hazards and driver behaviour. This is to include a Driver Code of Conduct:	Traffic	Chapter 17 & 30	Appendix Q & AA
The Great Western Highway (HW5) is a Controlled Access Road, under section 49 of the Roads Act 1993 where the proposed pipeline crosses	Traffic	Chapter 17 & 30	Appendix Q & AA
A Construction Management Plan (CMP) is to be developed for the pipeline development in consultation with Roads and Maritime and bounding Councils	Traffic	Chapter 17 & 30	Appendix Q & AA

The CMP is to detail how traffic generation, traffic movements and construction activities on or close to the Tra	raffic	Chapter 17 & 30	Appendix Q & AA
classified road network will be managed to ensure the safety and traffic efficiency of the classified road			
network is not compromised by construction activities.			

McPhillamys Gold Project EIS

Table B.3 Environmental Assessment Requirements - Commonwealth Requirements

Requirement	Addressed in EIS	Addressed in technical study
Introduction		
1. On 28 May 2019, a delegate of the Federal Minister for the Department of the Environment and Energy		
determined that the McPhillamys Gold Project was a controlled action under section 75 of the Environment		
Protection and Biodiversity Conservation Act 1999 (EPBC Act). The EPBC Act controlling provisions for the		
proposed action are:	-	-
i. listed threatened species and communities (sections 18 and 18A).	Chapter 13	Appendix N
2. The proposed action will be assessed in accordance with the NSW Bilateral Agreement relating to		
environmental assessment 2015 and as such, is required to be assessed in the manner specified in Schedule 1 to		
that Agreement including, addressing the matters outlined in Schedule 4 of the Environment Protection and		
Biodiversity Conservation Regulations 2000 (EPBC Regulations).	-	-
3. The proponent must undertake an assessment of all protected matters that may be impacted by the		
development under the controlling provisions identified in paragraph 1. The Commonwealth Department of		
Environment and Energy (DoEE) considers that the proposed action is likely to have a significant impact on the		
following:	Chapter 13 - Section 13.8	Appendix N - Section 8.1
i. listed threatened species and communities (sections 18 and 18A);	Chapter 13 - Section 13.8	Appendix N - Section 8.1
a) White Box- Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland- Critically		
Endangered;	Chapter 13 - Section 13.8	Appendix N - Section 8.1
b) Koala (Qld, NSW and the ACT) (<i>Phascolarctus cinereus</i>)- Vulnerable.	Chapter 13 - Section 13.8	Appendix N - Section 8.1
4. The proponent must consider each of the protected matters under the triggered controlling provisions that		
may be impacted by the action. Note that this may not be a complete list and it is the responsibility of the		
proponent to undertake an analysis of the significance of the relevant impacts and ensure that all protected		
matters that are likely to be significantly impacted are assessed for the Commonwealth Minister's consideration	Chapter 13 - Section 13.8	Ammondia N. Costina 9.1
	Chapter 13 - Section 15.6	Appendix N - Section 8.1
General Requirements		
Relevant Regulations		
5. The Environmental Impact Statement (EIS) must address the matters outlined in Schedule 4 of the EPBC		
Regulations and the matters outlined below in relation to the controlling provisions.	Parts A-D	Appendix N
Project Description		
6. The title of the action, background to the action of the action and current status.	Chapter 2	-
7. The precise location and description of all works to be undertaken (including associated offsite works and		
infrastructure), structures to be built or elements of the action that may have impacts on Matters of National		
Environmental Significance (MNES).	Chapter 2	-
8. How the action relates to any other actions that have been, or are being taken in the region affected by the		
action.	Chapter 5	-

9. How the works are to be undertaken and design parameters for those aspects of the structures or elements of		
the action that may have relevant impacts on MNES.	Chapter 2	-
Impacts		
10. The EIS must include an assessment of the relevant impacts of the action on the matters protected by the		
controlling provisions, including:	Chapter 13/ Section 13.5.1	Appendix N - Section 8.1
i. a description and detailed assessment of the nature and extent of the likely direct, indirect and consequential		
impacts, including short term and long term relevant impacts;	Chapter 13/ Section 13.5.1	Appendix N - Section 8.1
ii. a statement whether any relevant impacts are likely to be unknown, unpredictable or irreversible;	Chapter 13/ Section 13.5.1	Appendix N - Section 8.1
iii. analysis of the significance of the relevant impacts; and	Chapter 13/ Section 13.5.1	Appendix N - Section 8.1
iv. any technical data and other information used or needed to make a detailed assessment of the relevant		
impacts.	Chapter 13/ Section 13.5.1	Appendix N - Section 8.1
Avoidance, mitigation and offsetting	Chapter 13/ Section 13.5.2	Appendix N - Section 8.1
11. For each of the relevant matters protected that are likely to be significantly impacted by the action, the EIS		
must provide information on proposed avoidance and mitigation measures to manage the relevant impacts of the		
action including:	Chapter 13/ Section 13.5.2	Appendix N - Section 8.1
i. a description and an assessment of the expected or predicted effectiveness of the mitigation measures	Chapter 13/ Section 13.5.2	Annandiy N. Castian 9.1
· · · · · · · · · · · · · · · · · · ·	' '	Appendix N - Section 8.1
ii. any statutory policy basis for the mitigation measures;	Chapter 13/ Section 13.5.2	Appendix N - Section 8.1
iii. the cost of the mitigation measures;	Chapter 13/ Section 13.5.2	Appendix N - Section 8.1
iv. an outline of an environmental management plan that sets out the framework for continuing management,		
mitigation and monitoring programs for the relevant impacts of the action, including any provisions for	Shantan 42 / Saatian 42 5 2	
independent environmental auditing;	Chapter 13/ Section 13.5.2	Appendix N - Section 8.1
v. the name of the agency responsible for endorsing or approving each mitigation measure or monitoring program	Chapter 13/ Section 13.5.2	Appendix N - Section 8.1
12. Where a significant residual adverse impact to a relevant protected matter is considered likely, the EIS must		
provide information on the proposed offset strategy, including discussion of the conservation benefit associated		
with the proposed offset strategy.	Chapter 13/ Section 13.7	Appendix N - Section 8.1
13. For each of the relevant matters likely to be impacted by the action the EIS must provide reference to, and		
consideration of, relevant Commonwealth guidelines and policy statements including any:	Chapter 13 - Section 13.8	Appendix N - Section 8.1
i. conservation advice or recovery plan for the species or community,	Chapter 13 - Section 13.8	Appendix N - Section 8.1
ii. Relevant threat abatement plan for a process that threatens the species or community,	Chapter 13 - Section 13.8	Appendix N - Section 8.1
iii. wildlife conservation plan for the species	Chapter 13 - Section 13.8	Appendix N - Section 8.1
iv. any strategic assessment.	Chapter 13 - Section 13.8	Appendix N - Section 8.1
[Note: the relevant guidelines and policy statements for each species and community are available from the		
Department of the Environment Species Profiles and Threats Database. Http://www.environment.gov.au/cgi-		
bin/sprat/public/sprat.pl]		
Specific Risks		
Key risks from the Commonwealth perspective include:	Chapter 13 - Sectiom 13.8	Appendix N - Section 8.1

threats to EPBC Act listed threatened ecological communities from vegetation clearing; and	Chapter 13 - Section 13.8	Appendix N - Section 8.1
threats to EPBC Act listed fauna from clearance of habitat	Chapter 13 - Section 13.8	Appendix N - Section 8.1
Key Issues	Chapter 13 - Section 13.8	Appendix N - Section 8.1
Biodiversity (threatened species and communities)		
Assessment Requirements		
14. The EIS must identify each EPBC Act listed threatened species and community likely to be impacted by the		
action. For any species and communities that are likely to be impacted, the proponent must provide a description		
of the nature, quantum and consequences of the impacts. For species and communities potentially located in the		
project area or in the vicinity that are not likely to be impacted, provide evidence why they are not likely to be		
impacted.	Chapter 13 - Section 13.8	Appendix N - Section 8.1
15. For each of the EPBC Act listed threatened species and communities likely to be impacted by the action the		
EIS must provide a separate:		
a. description of the habitat (including identification and mapping of 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 listing advice, conservation advice and		
recovery plans;	Chapter 13 - Section 13.3	Appendix N - Section 8.1
b details of the sease timing and mathodology for studies or suppose yead and how thou are consistent with (or		
b. details of the scope, timing and methodology for studies or surveys used and how they are consistent with (or	Chantan 12 Continu 12 2	
justification for divergence from) published Australian Government guidelines and policy statements;	Chapter 13 - Section 13.3	Appendix N - Section 8.1
c. description of the relevant impacts of the action having regard to the full national extent of the species or	Chantan 12 Castian 12 F	
community's range;	Chapter 13- Section 13.5	Appendix N - Section 8.1
d. description of the specific proposed avoidance and mitigation measures to deal with relevant impacts of the		
action;	Chapter 13 - Section 13.9	Appendix N - Section 8.1
e. identification of significant residual adverse impacts likely to occur after the proposed activities to avoid and	L	
mitigate all impacts are taken into account;	Chapter 13 - Section 13.8	Appendix N - Section 8.1
f. description of any offsets proposed to address residual adverse significant impacts and how these offsets will be		
established.	Chapter 13 - Section 13.7	Appendix N - Section 8.1
g. details of how the current published NSW Framework for Biodiversity Assessment (FBA) has been applied in		
accordance with the objects of the EPBC Act to offset significant residual adverse impacts; and	Chapter 13 - Section 13.9	Appendix N - Section 8.1
h. details of the offset package to compensate for significant residual impacts including details of the credit		
profiles required to offset the action in accordance with the FBA and/or mapping and descriptions of the extent		<u> </u>
and condition of the relevant habitat and/or threatened communities occurring on proposed offset sites;	Chapter 13 - Section 13.9	Appendix N - Section 8.1

[Note: for the purposes of approval under the EPBC Act, it is a requirement that offsets directly contribute to the	1	
longoing viability of the specific protected matter impacted by a proposed action and deliver an overall		
conservation outcome that improves or maintains the viability of the MNES i.e. 'like for like'. In applying the FBA,		
residual impacts on EPBC Act listed threatened ecological communities must be offset with Plant Community		
Type(s) (PCT) that are ascribed to the specific EPBC listed ecological community. PCTs from a different vegetation		
class will not generally be acceptable as offsets for EPBC listed communities.]	Chapter 13 - Section 13.9	Appendix N - Section 8.1
16. Any significant residual impacts not addressed by the FBA may need to be addressed in accordance with the		
EPBC Act Environmental Offset Policy (http://www.environment.gov.au/epbc/publications/epbc-act-		
environmental-offsets-policy).	Chapter 13 - Section 13.9	Appendix N - Section 8.1
Other approvals and conditions		
17. Information in relation to any other approvals or conditions required must include the information prescribed		
in Schedule 4 Clause 5 (a) (b) (c) and (d) of the EPBC Regulations 2000.	EIS	Appendix N
Environmental Record or person proposing to take the action	Chapter 13	Appendix N
18. Information in relation to the environmental record of a person proposing to take the action must include		
details as prescribed in Schedule 4 Clause 6 of EPBC Regulations 2000.	Controlled action referral to DoE	-
Information Sources		
19. For information given in an EIS, the EIS must state the source of the information, how recent the information		
is, how the reliability of the information was tested; and what uncertainities (if any) are in the information.	Part H	Appendix N - Section 10