Compliance of Environmental Review Document with Environmental Scoping Document requirements

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
Flora and Vegetation		
EPA Objective	*To protect flora and vegetation so that biological diversity and ecological integrity are maintained*	**Section 5**
Required work	• Identify and characterise flora species and vegetation communities within the Proposal area and any other areas that may be directly or indirectly impacted as a result of this Proposal in accordance with the requirements of EPA *Environmental Factor Guideline: Flora and Vegetation* (2016) through:	Section 5.3
	• Desktop review of previous flora and vegetation surveys undertaken within the Proposal area; and	Section 5.3
	• Detailed flora and vegetation surveys in areas not previously surveyed that are likely to be directly or indirectly impacted as a result of this Proposal. Surveys (if required) are to be undertaken in accordance with the requirements of EPA *Technical Guidance: Flora and Vegetation Surveys for Environmental Impact Assessment (2016)*.	Section 5.3 Appendix 6
	• Assess the conservation significance of flora species and vegetation communities in a local and regional context, including:	Section 5.3 Section 5.5
	• Provide a detailed description of conservation significant flora species and vegetation communities that occur within the Proposal area, including, but not limited to;	Section 5.3
	○ Priority Ecological Community: West Angelas Cracking Clay	Section 5.3.1 Figure 5-3
	○ Priority Flora species	Section 5.3.2 Figure 5-4 Figure 5-5
	and assess the percentage of those species / extent of those communities that are likely to be directly or indirectly impacted as a result of this Proposal to demonstrate whether or not an impact on the local and regional representation of conservation significant flora species and vegetation communities is likely to occur.	Section 5.5.1 Section 5.5.2 Section 5.5.3 Section 5.5.4 Section 5.5.5

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
		Table 5-3 Table 5-4 Table 5-5 Table 5-6
	• Identify vegetation communities which are potentially groundwater dependent. Provide a detailed description of the methodology used in the identification and mapping of potentially groundwater dependent communities and assess the extent of these communities that are likely to be directly or indirectly impacted as a result of this Proposal.	Section 5.3.1 Section 5.5.4 Appendix 7
	• Provide maps showing the recorded locations of conservation significant vegetation communities.	Figure 5-1 Figure 5-2 Figure 5-3 Figure 5-8
	• Provide a detailed description and analysis (including tables and figures / maps where appropriate) of the potential impacts to conservation significant flora species and vegetation communities within the Proposal area including direct impacts from clearing (include an analysis of approved clearing and proposed clearing for this Proposal), and indirect impacts such as altered hydrological regime, surface water discharge, groundwater drawdown and spread of weeds.	Section 5-4 Section 5.5
	• Determine and discuss the significance of potential direct, indirect (such as altered hydrological regimes, surface water discharge, groundwater drawdown, ingress of weeds) and cumulative impacts to conservation significant flora species and vegetation communities (at a local and regional scale), with a specific focus on potentially groundwater dependent vegetation within Karijini National Park, as a result of the Proposal.	Section 5.5
	• Present a spatially distributed risk assessment of likely impacts to groundwater dependent vegetation based on an understanding of dependence and projected hydrological and hydrogeological changes. Include consideration whether potential impacts to potentially groundwater dependent vegetation within Karijini National Park will be reversible.	Section 5.5.4 Figure 5-9 Figure 5-10
	• Discuss proposed outcomes / objectives, management strategies and monitoring (including methodology, frequency and location, trigger and threshold criteria, contingency actions, review and reporting) to be implemented to demonstrate that the Proposal has considered the mitigation hierarchy to ensure impacts (direct and indirect) to flora species and vegetation communities are avoided / minimised and are not greater than predicted.	Section 5.6 Table 5-6 Appendix 5

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	• Predict the residual impacts to conservation significant flora species and vegetation communities as a result of the Proposal, following the application of the mitigation hierarchy. Identify whether the residual impacts are significant by applying the Significant Residual Impact Model in the WA Environmental Offsets Guideline.	Section 5.7 Table 5-6
	• Propose an offsets position for potential significant residual impacts to significant flora species and vegetation communities as a result of the Proposal that demonstrates application of the WA Environmental Offsets Policy and Guideline.	Section 5.6 Section 12.2
	• Demonstrate in the Environmental Review Document how the EPA's objective for this factor can be met.	Section 5.7
	• Review and where necessary propose revisions to the requirements of the existing conditions of Ministerial Statement 970 and 1015 that could be applied to the entire Revised Proposal in order to address potential impacts to conservation significant flora species and vegetation communities.	Section 5.6 Appendix 4
	• Review and where necessary revise the existing Environmental Management Plan to be applied to the entire Revised Proposal (*Appendix 5 of the Environmental Review Document*) in order to ensure that potential impacts to conservation significant flora species and vegetation communities are addressed. The revised Plan should include the following:	Appendix 5
	• Description of the proposal's dewatering activities (including surplus dewater discharge) and it's potential to impact groundwater dependent vegetation and health of riparian vegetation within Karijini National Park; and	
	• Description of the mitigation hierarchy (avoid / minimise) relating to mitigating the disturbance to the West Angelas Cracking Clay Priority Ecological Community.	
	The following should also be addressed in the plan:	
	• Invasive species control – control of weeds, in particular through construction of infrastructure, transport and/or entry and exit points, riparian and GDE areas, vegetation units considered to have high local significance (e.g. rare units, habitat for conservation significant species) and in areas identified as in 'excellent condition'.	
	• Monitoring (including methodology, frequency and location, review and reporting) – monitoring of conservation significant vegetation communities to inform, through the environmental criteria, if the conditioned environmental outcome is being achieved.	
	• Management (including trigger and threshold criteria and contingency actions) – adaptive management actions to be implemented to mitigate and manage impacts to achieve the conditioned environmental outcome.	
	• Prepare a Closure Plan consistent with DMP and EPA *Guidelines for Preparing Mine Closure Plans* (2015), which includes a	Section 11

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	Closure Objective to ensure that vegetation on rehabilitated land is self-sustaining and compatible with the final land use and also includes methodologies and criteria to ensure progressive rehabilitation of vegetation composed of native species of local provenance.	Appendix 14
	• Predict the inherent and residual impacts before and after applying the mitigation hierarchy and identify whether the residual impacts are significant by applying the Significant Residual Impact Model in the WA Environmental Offsets Guideline.	Section 5.6 Table 5-6 Section 12.2 Table 12-1
	• Quantify any significant residual impacts by completing the Offset Template, spatially defining the area of 'good' to 'excellent' native vegetation that will be disturbed as a result of this proposal and propose an appropriate offsets package that demonstrates application of the WA Environmental Offsets Policy and Guideline.	Section 12.2 Table 12-1
Terrestrial Fauna		
EPA Objective	*To protect terrestrial fauna so that biological diversity and ecological integrity are maintained*	**Section 6**
Required work	• Identify and characterise fauna species and habitats within the Proposal area and any other areas that may be directly or indirectly impacted as a result of this Proposal in accordance with the requirements of EPA *Environmental Factor Guideline: Terrestrial Fauna* (2016) through:	Section 6-3
	• Desktop review of previous terrestrial fauna and Short Range Endemic surveys undertaken within the Proposal area; and	Section 6-3
	• Detailed terrestrial fauna and Short Range Endemic surveys in areas not previously surveyed that are likely to be directly or indirectly impacted as a result of this Proposal. Surveys (if required) are to be undertaken in accordance with the requirements of EPA *Technical Guidance: Terrestrial Fauna Surveys (2016)*, *Sampling Methods for Terrestrial Vertebrate Fauna* (2016) and *Sampling of Short Range Endemic Invertebrate Fauna* (2016).	Section 6-3 Appendix 8
	• Assess the conservation significance of fauna species and habitats in a local and regional context, including:	Section 6.3 Section 6.5
	• Provide a detailed description of conservation significant fauna species that are known, or likely, to occupy habitats within the Proposal area, including:	Section 6.3.2 Section 6.5.2
	○ known existing threats to conservation significant fauna species;	Section 6.5.2

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	○ information on their distribution (including known occurrences), ecology and habitat preferences at both the local and regional level (consider habitats that provide important ecological function within the Proposal area such as geological features that may support habitat specific communities); and	Section 6.5.2
	○ information on the conservation value of each habitat, and local and regional representation of habitats.	Section 6.3.1 Section 6.5.1
	and assess the extent of those habitats that are likely to be directly or indirectly impacted as a result of this Proposal to demonstrate whether or not an impact on conservation significant fauna species is likely to occur.	Section 6.3.1 Section 6.5.1
	• Assess the likelihood that habitats within the Proposal area support Short Range Endemic invertebrate species and the extent (local and regional) of those habitats that are likely to be directly or indirectly impacted as a result of this Proposal to demonstrate whether or not an impact on Short Range Endemic invertebrate species is likely to occur.	Section 6.3.3
	• Provide maps showing the recorded locations of conservation significant fauna species and Short Range Endemic invertebrate fauna species in relation to habitats.	Figure 6-1 Figure 6-2
	• Provide a detailed description of the potential impacts to conservation significant fauna species and habitats within the Proposal area including direct impacts from clearing, and indirect impacts such as vibration from blasting.	Section 6.4 Section 6-5
	• Assess the extent of habitats to be potentially impacted to assist in determination of significance of impacts. Provide maps to differentiate habitat on the basis of use e.g. breeding habitat, migration pathways, and / or foraging / feeding / dispersal habitat (if / where relevant).	Section 6.5.1
	• Determine and discuss the significance of potential direct, indirect and cumulative impacts to conservation significant fauna species and habitats (at a local and regional scale) as a result of this Proposal.	Section 6.5.1 Section 6.5.2
	• Discuss proposed outcomes / objectives, management strategies and monitoring (including methodology, frequency and location, trigger and threshold criteria, contingency actions, review and reporting) to be implemented to demonstrate that the Proposal has considered the mitigation hierarchy to ensure impacts (direct and indirect) to fauna species and habitats are avoided / minimised and are not greater than predicted.	Section 6.6 Table 6-3 Appendix 5
	• Predict the residual impacts to conservation significant fauna species and habitats as a result of the Proposal, following the application of the mitigation hierarchy. Identify whether the residual impacts are significant.	Section 6.7 Table 6-3
	• Demonstrate in the Environmental Review Document how the EPA's objective for this factor can be met.	Section 6.7

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	• Review and where necessary propose revisions to the requirements of the existing conditions of Ministerial Statement 970 and 1015 that could be applied to the entire Revised Proposal in order to address potential impacts to conservation significant fauna species and habitats.	Section 6.6 Appendix 4
	• Review and where necessary revise the existing Environmental Management Plan to be applied to the entire Revised Proposal (*Appendix 5 of the Environmental Review Document*) in order to ensure that potential impacts to conservation significant fauna species and habitats are addressed. The objectives of the revised Plan are to ensure the following:	Appendix 5
	• avoid / minimise disturbance to conservation significant fauna.	
	• Prepare a Closure Plan consistent with DMP and EPA *Guidelines for Preparing Mine Closure Plans* (2015), which includes a Closure Objective to ensure that vegetation on rehabilitated land is self-sustaining and compatible with the final land use and also includes methodologies and criteria to ensure progressive rehabilitation of habitat for conservation significant species.	Section 11 Appendix 14
	• Predict the inherent and residual impacts before and after applying the mitigation hierarchy and identify whether the residual impacts are significant by applying the Significant Residual Impact Model in the WA Environmental Offsets Guidelines	Section 6.6 Table 6-3 Section 12.2 Table 12-1
	• Quantify any significant residual impacts by completing the Offset Template, spatially defining the habitat area for each significant fauna species that will be disturbed as a result of this proposal and propose an appropriate offsets package that demonstrates application of the WA Environmental Offsets Policy and Guideline. Demonstrate how the project has considered the WA guidance for offsets	Section 1.2 Table 12-1
Subterranean Fauna		
EPA Objective	*To protect subterranean fauna so that biological diversity and ecological integrity are maintained*	**Section 7**
Required work	• Identify and characterise subterranean fauna species and habitats within the Proposal area and surrounding areas that may be directly or indirectly impacted as a result of this Proposal in accordance with the requirements of EPA *Environmental Factor Guideline: Subterranean Fauna* (2016) through:	Section 7.3
	• a desktop review of previous subterranean fauna surveys undertaken within the Proposal area and surrounding areas (including, but not limited to, existing regional subterranean fauna surveys to provide the regional context of the subterranean fauna of the Proposal area);	Section 7.3

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	• detailed subterranean fauna surveys within the Proposal area and surrounding areas (where possible) to understand the potential for subterranean fauna species to occur in areas not previously surveyed that are likely to be directly or indirectly impacted as a result of this Proposal. Surveys are to be undertaken in accordance with the requirements of EPA *Technical Guidance: Subterranean Fauna Survey* (2016) and *Sampling Methods for Subterranean Fauna* (2016); and	Section 7.3 Appendix 9 and Appendix 10
	• assessment of the potential presence of subterranean fauna species, assemblages and habitats within the Proposal area and surrounding areas based on the available information.	Section 7.3 Section 7.5
	• Assess the local and regional conservation significance of subterranean fauna species, assemblages and habitats, including:	Section 7.3 Section 7.5
	• Provide a detailed description of subterranean fauna habitats within the Proposal area and surrounding areas (where possible) including:	Section 7.3.2
	○ information on the local and regional representation of the habitat;	Section 7.3.2
	○ habitat continuity;	Section 7.3.2
	○ habitat connectivity; and	Section 7.3.2
	○ an appropriate explanation of the likely distribution of species within those habitats.	Section 7.3.2 Section 7.5.2
	and assess the extent of those habitats that are likely to be directly or indirectly impacted as a result of this Proposal to demonstrate whether or not an impact on subterranean fauna species is likely to occur.	Section 7.5
	• Provide maps showing the recorded locations of subterranean fauna species in relation to habitats.	Figure 7-1 Figure 7-2
	• Provide a detailed description of the potential impacts to subterranean fauna species, assemblages and habitats within the Proposal area including direct impacts from mining and groundwater drawdown, and indirect impacts such as clearing and contamination.	Section 7.4 Section 7.5
	• Determine and discuss the significance of potential direct, indirect and cumulative impacts to subterranean fauna species, assemblages and habitats as a result of this Proposal.	Section 7.5
	• Discuss proposed outcomes / objectives and management strategies to be implemented to demonstrate that the Proposal has	Section 7.6

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	considered the mitigation hierarchy to ensure impacts (direct and indirect) to subterranean fauna are avoided / minimised and are not greater than predicted.	Table 7-5
	• Predict the residual impacts to subterranean fauna as a result of the Proposal, following the application of the mitigation hierarchy. Identify whether the residual impacts are significant.	Section 7.7 Table 7-5
	• Demonstrate in the Environmental Review Document how the EPA's objective for this factor can be met.	Section 7.7
	• Prepare a Closure Plan consistent with DMP and EPA *Guidelines for Preparing Mine Closure Plans* (2015), which requires that below water table pits will be backfilled to a level to prevent the formation of permanent pit lakes.	Section 11 Appendix 14
Hydrological processes		
EPA Objective	*To maintain the hydrological regimes of groundwater and surface water so that environmental values are protected*	**Section 8**
Required work	• Characterise the baseline hydrological and hydrogeological regimes, both in a local and regional context, including, but not limited to, a detailed description of catchment boundaries, creek flows, natural patterns of surface water (sheet) flows, flood patterns, groundwater levels and interdependence between surface and groundwater features within the Proposal area and any other areas that may be directly or indirectly impacted as a result of this Proposal in accordance with the requirements of EPA *Environmental Factor Guideline: Hydrological Processes* (2016).	Section 8.3 Appendix 11
	• Provide a detailed description of the potential impacts to hydrological and hydrogeological regimes as a result of this Proposal including:	Section 8.4 Section 8.5
	• direct impacts such as;	
	○ alteration of the natural hydrological regime as a result of mining;	Section 8.5.1
	○ alteration of the natural hydrological regime as a result of discharge of surplus dewatering water;	Section 8.5.2
	○ groundwater drawdown as a result of dewatering; and	Section 8.5.3
	• indirect impacts such as contamination.	Section 8.5.4
	• Conduct investigations to determine the significance of potential direct, indirect and cumulative impacts to hydrological and hydrogeological regimes (and any dependant environmental values) as a result of this Proposal, including;	Section 8.3 Section 8.5
	• Conceptual understanding of surface water systems (provide a detailed description (including figures / maps) of the potential alteration of the natural hydrological regime (including extent, degree and duration) and assess potential impacts	Section 8.3.1

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	to environmental values including but not limited to riparian vegetation of Turee Creek East).	Figure 8-1 Figure 8-2 Figure 8-3 Figure 8-4
	• Conceptual hydrogeological modelling and numerical modelling of groundwater systems (provide a detailed description (including figures / maps) of the potential groundwater drawdown (including extent, degree and duration) and assess potential impacts to environmental values including but not limited to potentially groundwater dependant vegetation communities within Karijini National Park).	Section 8.3.2 Figure 8-6 Figure 8-7 Figure 8-8 Figure 8-9 Figure 8-10 Figure 8-11 Figure 8-12 Figure 8-13 Figure 8-14 Appendix 11
	• Conceptual understanding of the extent of connectivity between surface and groundwater systems.	Section 8.3.2
	• Site water balance modelling for the life of the proposal (provide a conceptual water balance, potential surplus water management options (i.e. reuse on site, local water supply, discharge of surplus dewatering water etc.), a detailed description of the proposed (most appropriate) water management strategy for this Proposal and assess potential impacts of this strategy to environmental values including but not limited to riparian vegetation of Turee Creek East).	Section 8.3.3 Figure 8-15 Figure 8-16 Figure 8-17
	• Consider cumulative impacts to hydrological and hydrogeological regimes as a result of other projects and referred proposals in the catchment for which relevant information is publically available. Include consideration of abstraction from existing (approved) dewatering from deposits, existing (approved) abstraction from the water supply borefield and existing (approved) discharge. Any changes to existing water extraction should be incorporated into the conceptual hydrogeological model to provide for a full assessment of potential impacts to hydrological and hydrogeological regimes of the adjacent Karijini National Park.	Section 8.4 Section 8.5

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	• Characterise any environmental values within the Proposal area and other areas (specifically within Karijini National Park) that may be directly or indirectly impacted by changes to the hydrological and hydrogeological regimes as a result of this Proposal (including extent, degree and duration of potential impacts).	Section 8.5.1 Section 8.5.2 Section 8.5.3
	• Peer review – allow for appropriate confidence in predictions assured through an independent expert peer review of groundwater investigation methods and impact predictions.	Section 5.5.4, Appendix 7 Section 8.5.3, Appendix 11
	• Discuss proposed outcomes / objectives, management strategies and monitoring (including methodology, frequency and location, trigger and threshold criteria, contingency actions, review and reporting) to be implemented to demonstrate that the Proposal has considered the mitigation hierarchy to ensure impacts (direct and indirect) to hydrological processes are avoided / minimised and are not greater than predicted. Include consideration of any requirement for ongoing access to Karijini National Park for monitoring purposes.	Section 8.6 Table 8-2
	• Predict the residual impacts to hydrological and hydrogeological regimes as a result of the Proposal, following the application of the mitigation hierarchy. Identify whether the residual impacts are significant.	Section 8.7 Table 8-2
	• Demonstrate in the Environmental Review Document how the EPA's objective for this factor can be met.	Section 8.7
	• Review and where necessary propose revisions to the requirements of the existing conditions of Ministerial Statement 970 and 1015 that could be applied to the entire Revised Proposal.	Section 8.6 Appendix 4
	• Review and where necessary revise the existing Environmental Management Plan to be applied to the entire Revised Proposal (*Appendix 5 of the Environmental Review Document*). The objectives of the revised Plan are to ensure the following:	Appendix 5
	• Description of the proposal's dewatering activities (including surplus dewater discharge) and it's potential to impact groundwater dependent vegetation and health of riparian vegetation within Karijini National Park; and	
	• Description of potential impacts from discharge of surplus water, to the health of riparian vegetation of Turee Creek East.	
	The following should also be addressed in the plan:	
	• Monitoring (including methodology, frequency and location, review and reporting) – monitoring of conservation significant vegetation communities to inform, through the environmental criteria, if the conditioned environmental outcome is being achieved.	Appendix 5
	• Management (including trigger and threshold criteria and contingency actions) – adaptive management actions to be	

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	implemented to mitigate and manage impacts to achieve the conditioned environmental outcome.	
	• Prepare a Closure Plan consistent with DMP and EPA *Guidelines for Preparing Mine Closure Plans* (2015), which includes a Closure Objective requiring consideration of hydrological issues and also includes criteria to ensure hydrological regimes are maintained so that any dependant environmental values are protected.	Section 11 Appendix 14
Inland waters environmental quality		
EPA Objective	*To maintain the quality of groundwater and surface water so that environmental values are protected*	**Section 8**
Required work	• Characterise any sensitive receptors within the Proposal area and any other areas that may be directly or indirectly impacted as a result of this Proposal in accordance with the requirements of EPA *Environmental Factor Guideline: Inland waters environmental quality* (2016).	Section 8.3.1
	• Provide a detailed description of the potential impacts to groundwater or surface water quality as a result of mining and / or dewatering exposing PAF materials causing AMD.	Section 8.4 Section 8.5.4
	• Conduct investigations to determine the significance of potential direct, indirect and cumulative impacts to water quality as a result of this Proposal, including:	Section 8.3.4 Section 8.5.4
	• Geochemical characterisation to understand the potential for acidification and / or metal enrichment to occur;	Section 8.3.4 Section 8.5.4
	• Assessment of likelihood of encountering PAF materials; and	Section 8.3.4 Section 8.5.4
	• Assessment of risk associated with AMD.	Section 8.3.4 Section 8.5.4
	• Discuss proposed outcomes / objectives, management strategies and monitoring to be implemented to demonstrate that the Proposal has considered the mitigation hierarchy to ensure impacts to water quality are avoided / minimised and are not greater than predicted.	Section 8.6 Table 8-2
	• Describe residual impacts to water quality as a result of the Proposal, following the application of the mitigation hierarchy.	Section 8.7
	• Demonstrate in the Environmental Review Document how the EPA's objective for this factor can be met.	Section 8.7
	• Prepare a Closure Plan consistent with DMP and EPA *Guidelines for Preparing Mine Closure Plans* (2015) which requires that	Section 11

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	below water table pits will be backfilled to a level to prevent the formation of permanent pit lakes.	Appendix 14
Air quality		
EPA Objective	*To maintain air quality and minimise emissions so that environmental values are protected*	**Section 9**
Required work	• Characterise any sensitive receptors within the Proposal area and any other areas that may be directly or indirectly impacted by dust and greenhouse gas emissions as a result of this Proposal in accordance with the requirements of EPA *Environmental Factor Guideline: Air quality* (2016).	Section 9.3
	• Provide a detailed description of the potential impacts to air quality as a result of this Proposal including:	Section 9.4 Section 9.5
	• dust emissions generated by clearing, vehicle movements, mining and processing, and wind erosion from cleared areas; and	Section 9.5.1
	• greenhouse gas emissions generated by diesel and electricity consumption.	Section 9.5.2
	• Conduct investigations to determine the significance of potential direct, indirect and cumulative impacts to air quality as a result of this Proposal, including:	Section 9.5.2
	• dust dispersion modelling, and	Section 9.5.2 Appendix 12
	• greenhouse gas calculations (including estimation of expected Scope 1 (direct) greenhouse gas emissions).	Section 9.5.2
	• Discuss proposed outcomes / objectives, management strategies and monitoring to be implemented to demonstrate that the Proposal has considered the mitigation hierarchy to ensure impacts to air quality are avoided / minimised and are not greater than predicted.	Section 9.6 Table 9-1
	• Describe residual impacts to air quality as a result of the Proposal, following the application of the mitigation hierarchy.	Section 9.7
	• Demonstrate in the Environmental Review Document how the EPA's objective for this factor can be met.	Section 9.7
Social surroundings		
EPA Objective	*To ensure that social surroundings are not materially affected*	**Section 10**
Required work	• Characterise any sensitive receptors including heritage sites of ethnographic and / or archaeological significance within the Proposal area and any other areas that may be directly or indirectly impacted as a result of this Proposal in accordance with	Section 10.3

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	the requirements of EPA *Environmental Factor Guideline: Social surroundings* (2016).	
	• Provide a detailed description of the potential impacts to social surroundings (specifically heritage sites of ethnographic and / or archaeological significance) as a result of changes to the environment including:	Section 10.4 Section 10.5
	• impacts to visual amenity within Karijini National Park;	Section 10.5.1 Figure 10-1 Figure 10-2 Figure 10-3 Figure 10-4 Figure 10-5 Figure 10-6 Figure 10-7 Appendix 13
	• direct impacts to heritage sites from clearing; and	Section 10.5.2
	• indirect impacts to heritage sites such as alteration of the natural hydrological regime as a result of mining and groundwater drawdown as a result of dewatering.	Section 10.5.2
	• Conduct investigations to determine the significance of potential direct, indirect and cumulative impacts to social surroundings (specifically heritage sites of ethnographic and / or archaeological significance) as a result of this Proposal, including;	Section 10.5.2
	• Ethnographic and archaeological surveys in consultation with the Traditional Owners to identify Aboriginal sites of significance and identify concerns, and	
	• Ecological, hydrological and hydrogeological assessments (where relevant).	
	• Provide detail on consultation that has been, and will continue to be, undertaken with Traditional Owners.	Section 3 Table 3-1
	• Discuss proposed outcomes / objectives and management strategies to be implemented to demonstrate that the Proposal has considered the mitigation hierarchy to ensure impacts to social surrounds are avoided / minimised and are not greater than predicted.	Section 10.6 Table 10-1

Environmental Scoping Document Requirements		Environmental Review Document Section Reference
	• Describe residual impacts to social surrounds as a result of the Proposal, following the application of the mitigation hierarchy.	Section 10.7
	• Demonstrate in the Environmental Review Document how the EPA's objective for this factor can be met.	Section 10.7
	• Prepare a Mine Closure Plan consistent with DMP and EPA *Guidelines for Preparing Mine Closure Plans* (2015), which considers social surrounds.	Section 11 Appendix 14