

Mindy South Iron Ore Mine

Environmental Scoping Document – March 2025

Table of Contents

1. Introduction

- 1.1 Indicative timing and environmental review
- 1.2 Commonwealth Government approvals

2. Form and content (work required)

- 2.1 Preliminary environmental factors
- 2.2 Specific additional work required for assessment of proposal
- 2.3 Cumulative Impact Assessment
- 2.4 Holistic Impact Assessment
- 2.5 Offsets
- 2.6 Stakeholder Consultation
- 2.7 Proposal Content Considerations

3. Decision-making authorities

Figures

- Figure 1 Regional location of proposal
- Figure 2 Development envelope of proposal

Appendix 1 Policy and Guidance

Tables

- Table 1 General proposal and proponent information
- Table 2 Indicative outline of the timing of the environmental review (indicative timeline)
- Table 3 Proposal specific and/or additional required work
- Table 4 Decision making authorities and processes
- Table 5 Other statutory decision-making process which can mitigate potential impacts on the environment

1. Introduction

The Environmental Protection Authority (EPA) determined that the Mindy South Iron Ore Mine is to be assessed under Part IV of the *Environmental Protection Act 1986* (EP Act).

The purpose of the Environmental Scoping Document (ESD) is to define the form, content, indicative timing and procedure of the environmental review, required by s. 40(3) of the Act.

This ESD has been prepared by the EPA in consultation with the proponent, decision-making authorities and interested agencies consistent with the EPA’s [Procedures Manual](#).

The EPA requires the proponent to undertake the environmental review according to the procedures in the EPA’s [Administrative Procedures](#) and [Procedures Manual](#), and the [Instructions and Template: How to prepare an Environmental Review Document](#).

This ESD has not been released for public review. The ESD will be available on the EPA website (www.epa.wa.gov.au) upon endorsement and must be appended to the Environmental Review Document (ERD). The ERD is to be published for public review for a period of 6 (six) weeks.

The Proponent will undertake a review of the ERD to ensure the requirements of the relevant EPA instructions, templates and guidance have been met. The ERD will include a scoping checklist that identifies the section(s) and page number of the ERD indicating where both all the dot points in the scoping checklist on page 5 of the ERD Template (2021) and the requirements of this ESD can be found.

Table 1: General proposal and proponent information

Proposal information	
Proposal name	Mindy South Iron Ore Mine
Proponent	Chichester Metals Pty Ltd
Location	55 kilometres north west of Newman in the Pilbara
Assessment number	APP-0026910
Local Government area	Shire of East Pilbara
Public review period	Environmental Review Document – 6 weeks

The subject of this ESD is Chichester Metals Pty Ltd’s Mindy South Iron Ore Mine for the construction and operation of an iron ore mine and borefield approximately 55 kilometres (km) north west of Newman, in the Pilbara Region of Western Australia.

The regional location of the proposal is shown in Figure 1 and the development envelope encompassing the physical elements of the proposal is delineated in Figure 2.

1.1 Indicative timing of the environmental review

Table 2 sets out the indicative outline of the timing of the environmental review (indicative timeline) agreed between the EPA and the proponent.

Table 2: Indicative outline of the timing of the environmental review (indicative timeline)

Key assessment milestones	
EPA approves Environmental Scoping Document	07 Mar 2025
Proponent submits first draft Environmental Review Document	28 Aug 2026
EPA provides comment on first draft Environmental Review Document <i>(6 weeks from receipt of ERD)</i>	09 Oct 2026
Proponent submits revised draft Environmental Review Document <i>(8 weeks)</i>	04 Dec 2026
EPA authorises release of Environmental Review Document for public review <i>(2 weeks from EPA approval of ERD)</i>	18 Dec 2026
Proponent releases Environmental Review Document for public review for 6 weeks	11 Jan 2027
Close of public review period	22 Feb 2027
EPA provides Summary of Submissions <i>(3 weeks from close of public review period*)</i>	15 Mar 2027
Proponent provides Response to Submissions <i>(8 weeks)</i>	10 May 2027
EPA reviews the Response to Submissions <i>(4 weeks from receipt of Response to Submissions)</i>	07 Jun 2027
EPA prepares draft assessment report and completes assessment	26 July 2027
EPA finalises Assessment report (including two-week consultation on draft conditions) and gives report to Minister <i>(6 weeks from completion of assessment)</i>	06 Sept 2027

1.2 Commonwealth Government approvals

The proposal is likely to be determined as a controlled action under the *Environment Protection and Biodiversity Conservation Act 1999*, but it has not yet been referred to the Commonwealth. Therefore, this proposal will not be an accredited assessment.

2. Form and content (required work)

The EPA requires that the form of the report on the environmental review required under section 40 of the EP Act is in accordance with the [Instructions and Template: How to prepare an Environmental Review Document](#).

The EPA requires that the content of the ERD is in accordance with the [Instructions and Template: How to prepare an Environmental Review Document](#).

The EPA also requires that the environmental review includes the proposal specific additional content outlined in Section 2.

2.1 Preliminary key environmental factors

The preliminary key environmental factors to be addressed in the ERD are:

1. Flora and Vegetation
2. Subterranean Fauna

- 3. Terrestrial Fauna
- 4. Terrestrial Environmental Quality
- 5. Inland Waters
- 6. Greenhouse Gas Emissions
- 7. Social Surroundings
- 8. Landforms

2.2 Specific and/or additional work required for assessment of proposal for key environmental factors

Table 3 outlines the proposal specific and/or additional work required as it relates to preliminary key environmental factor/s for the proposal. The information outlined in the table below is required in addition to the required work outlined in the [Instructions and Template: How to prepare an Environmental Review Document](#) and any application policy and guidance.

Table 3: Proposal specific and/or additional required work

All Environmental Factors	
Required work	<p>Work to be consistent with the requirements in the Instructions and Template: How to prepare an Environmental Review Document and provided for each factor:</p> <ol style="list-style-type: none"> 1. factor objective 2. relevant policies and guidance (including, but not limited to Appendix 1) 3. receiving environment 4. potential environmental impacts 5. mitigation 6. assessment and significance of residual impact 7. environmental outcomes <p>Work required to inform the ERD will be conducted in accordance with the requirements of the most recent EPA Environmental Factor Guidelines and Technical Guidance at the time the ERD is published for each preliminary key environmental factor, and a consolidated report of the surveys and/or investigations undertaken will be provided for each factor. Where previous investigations or surveys are relied upon, justification will be provided to demonstrate that they are relevant and consistent with EPA guidance.</p> <p>Ensure all information as required by EPA guidelines and guidance is provided in the ERD and that the content in the main document aligns with the information in the attached appendices, or provide justification why this is not the case.</p> <p>Any novel approaches need to be agreed to prior to submission and supported with an independent peer review to demonstrate it is fit-for-purpose. Any investigation, study or survey limitations need to be discussed, along with the methodology as to how any gaps in information have been addressed.</p>

	<p>For each preliminary key environmental factor the proponent is required to follow relevant recovery plans, conservation advices and/or threat abatement plans for conservation significant species, communities, habitat (supporting, significant, and critical), and ecosystems that are known to occur, or are likely to occur in the vicinity of the proposal area. Any instances where published guidance is not followed must be justified.</p> <p>Where previous investigations or surveys are relied upon, justification will be provided to demonstrate that they are relevant and consistent with EPA guidance.</p>
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Flora and Vegetation

Required work	<ol style="list-style-type: none"> 1. In accordance with EPA guidance, conduct surveys to identify and characterise the flora and vegetation of areas in a local and regional context, and clarify and justify the quantification of the local and regional context used in the assessment. <ul style="list-style-type: none"> If multiple surveys have been undertaken to support the assessment, a consolidated report should be provided including the integrated results from all relevant previous surveys, relevant to the proposal area. If previous surveys are relied on for context, justification should be provided to demonstrate that they are relevant and consistent with EPA guidance. If previous surveys and records are utilised, older specimens should be compared with newer collected specimens. Genetic analysis may be required to match and identify specimens. 2. Identify and describe the flora species identified by the studies and surveys. Describe significant flora and provide an analysis of local and regional context, (refer to the Environmental factor guideline – Flora and vegetation for guidance on significance). 3. Provide tables with quantitative assessments of impact: <ol style="list-style-type: none"> a. For significant flora, this includes: <ol style="list-style-type: none"> i. number of individuals and populations in a local and regional context, and clarify and justify the quantification of the local and regional context used in the assessment ii. numbers and proportions of individuals and populations directly or potentially indirectly impacted iii. numbers/proportions/populations currently protected within the conservation estate (where known). b. For all vegetation units (noting threatened and priority ecological communities and significant vegetation) this includes: <ol style="list-style-type: none"> i. area (in hectares) and proportions directly or potentially indirectly impacted ii. proportions/hectares of the vegetation unit currently protected within conservation estate (where known). 4. Provide appropriate mapping and figures, including but not limited to, survey efforts, habitats, location of recorded species and/or specific vegetation types.
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	<p>5. Provide cumulative impacts and incorporating data from adjacent and regional proposals to inform species distributions, vegetation or habitat extents, and the predicted cumulative impacts to species and communities from multiple projects.</p> <p>6. Alongside the Mine Closure Plan, discuss the impacts of surplus water discharge and surface water management (such as, but not limited to, creek diversions) on flora species, vegetation types, habitats and communities, and how impacts will be managed during operations and post-closure with regards to the mitigation hierarchy, including timebound or measurable commitments to progressive rehabilitation (e.g. against annual clearing rates, number of hectares per five years etc.</p>
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Subterranean Fauna

<p>Required work</p>	<p>7. In accordance with EPA guidance, conduct studies and surveys to identify and characterise the subterranean fauna (identified to a species level where possible), assemblages, and habitats in a local and regional context, and clarify and justify the quantification of the local and regional context used in the assessment.</p> <p>If multiple surveys have been undertaken to support the assessment, a consolidated report will be provided including the integrated results from all relevant previous surveys, relevant to the proposal area.</p> <p>If previous surveys are relied on for context, justification should be provided to demonstrate that they are relevant and consistent with EPA guidance.</p> <p>If previous surveys and records are utilised older, specimens should be compared with newer collected specimens. Genetic analysis may be required to match and identify specimens.</p> <p>8. Identify and describe the subterranean fauna habitats:</p> <ol style="list-style-type: none"> That may be impacted directly and indirectly by the proposal during construction and operations. Describe the significance of these values in a local and regional context. Include relevant geological and hydrological information to determine habitat suitability and connectivity, including inside and outside the impact areas. <p>9. Provide figures and maps showing the extent of subterranean fauna habitats in relation to the proposal and species distributions. Additionally, include a table of the proportional extents of each habitat within the study area and development envelope, and the predicted amount to be directly impacted and remaining. Consider any local or regional cumulative impacts. Any graphics provided must be clearly annotated and of high resolution.</p> <p>10. Identify and describe the fauna assemblages present and likely to be present within the development envelope that may be impacted by the proposal.</p> <p>11. Describe and quantify the extent of potential direct, indirect and cumulative impacts, including percentages, to subterranean fauna as a</p>
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	<p>result of implementation of the proposal during both construction and operations, in a local and regional context.</p> <p>12. If new or alternative techniques are used, a peer review of information, modelling, surveys conducted, and management plans developed for this factor are required to determine that EPA objectives will be met.</p>
Terrestrial Fauna	
<p>Required work</p>	<p>13. In accordance with EPA guidance conduct studies to identify and characterise the vertebrate, aquatic invertebrate, and short-range endemic (SRE) invertebrate fauna and fauna habitats in a local and regional context, clarify and justify the quantification of the local and regional context used in the assessment.</p> <p>If multiple surveys have been undertaken to support the assessment, a consolidated report should be provided including the integrated results from all relevant previous surveys, relevant to the proposal area.</p> <p>If previous surveys are relied on for context, justification should be provided to demonstrate that they are relevant and consistent with EPA guidance.</p> <p>If previous surveys and records are utilised older specimens should be compared with newer collected specimens. Genetic analysis may be required to match and identify specimens.</p> <p>14. Invertebrate species to be identified to the species level or provide a justification if unable to do so. Resolve the invertebrate specimen identifications to species/operational taxonomic units (OTU), using genetic and/or morphological methods.</p> <p>15. Identify and describe the fauna assemblages present and likely to be present within the development envelope that may be impacted by the proposal.</p> <p>16. Identify significant or restricted fauna and describe in detail their known ecology, likelihood of occurrence, habitats and known threats, (refer to the Environmental factor guideline – Terrestrial fauna for definition of significant fauna).</p> <p>17. Describe and quantify the extent of potential direct, indirect and cumulative impacts, including percentages, to habitats and significant species that may occur following implementation of the proposal during both construction and operations, in a local and regional context.</p> <p>18. Provide a table of the proportional extents of each habitat within the study area and development envelope, and the predicted amount to be directly impacted and remaining. Consider any local or regional cumulative impacts.</p>
Terrestrial Environmental Quality	
<p>Required work</p>	<p>19. Provide details and rationale for locations of Waste Rock Landforms (WRL), Tailings Storage Facility (TSF), stockpiles and landfills, including a detailed flood risk assessment (i.e. meteorological, geological and geographical characteristics).</p> <p>20. Provide details of the stability of the site from a geotechnical and geochemical perspective.</p>

	<ol style="list-style-type: none"> 21. Undertake and provide details of a baseline soil quality assessment of the development envelope. 22. Include figures of the mapped soil units and soil profile in the ERD. 23. Provide details on the presence of acid sulfate soils within the proposal area, and if present details of proposed management measures to be implemented during construction and operation to minimise impacts to terrestrial environmental quality. 24. Assess the mineralogy for likelihood of asbestiform minerals and provide justifications. 25. Conduct a detailed flood risk assessment to justify the locations of high risk landforms such as the WRL and TSF. 26. Provide a graphical conceptual representation of the final TSF. 27. Conduct chemical and physical characterisation of the waste materials, including characterisation of tailings pore water. 28. For each processing waste/tailings stream identify: <ol style="list-style-type: none"> a. geochemical properties b. environmental risk c. any issues with drainage and tailings consolidation. 29. Conduct seepage modelling for the TSF to estimate seepage geochemistry, volumes and likely extent of plumes, including potential impacts to receptors. 30. Assess impacts on surrounding environment if there was a failure of TSF integrity. 31. Provide details of chemical and diesel storage (including quantities), and power generation and management measures, including contingencies in the event of a spill, to ensure that contamination of land does not occur. 32. Include required works for proposed landfill operations, including but not limited to proposed location(s), waste type(s), monitoring and management, and incorporation with the Mine Closure Plan. 33. Determine and document if any of the proposal is likely to be listed as a contaminated site under the Contaminated Sites Act 2003 (WA) as a result of implementing the proposal. 34. Provide a Mine Closure Plan prepared in accordance with the Guidelines for Preparing Mine Closure Plans (DEMIRS 2024).
Inland Waters	
Required work	<ol style="list-style-type: none"> 35. Characterise the baseline hydrological and hydrogeological regimes in local and regional context, clarify and justify quantification of the local and regional context used in the assessment, including, but not limited to, catchment boundaries, water quality and quantity, water levels, water chemistry, stream flows and flood patterns. Include a detailed description of the geological framework (conceptual understanding of the groundwater environment) within the zone to be impacted by groundwater abstraction and any interdependence between surface and

	<p>groundwater features/aquifers. Include, where relevant, influences on water availability.</p> <p>36. Undertake a baseline surface water quality monitoring program to characterise baseline water quality of surface water assets, including intermittent creeks and persistent pools that may be directly or indirectly impacted by the proposal.</p> <p>37. Identify and characterise any environmental receptors that may be impacted by changes to inland waters as a result of the proposal.</p> <p>38. Provide a detailed description of the proposal aspects that have the potential to impact inland waters.</p> <p>39. Identify the location of both abstraction and reinjection bores and identify and discuss any associated impacts of groundwater abstraction and drawdown, as well as groundwater reinjection and groundwater level rise.</p> <p>40. Provide a hydrogeological assessment for the proposal (including detailed numerical groundwater modelling) to assess potential impacts on local and regional aquifers due to dewatering and reinjection and subsequent impacts to groundwater dependent ecosystems, including but not limited to those within Fortescue Marsh, Weeli Wolli Creek, Mindy Mindy Creek and Coondiner Creek. The assessment must also consider aquifer and pit lake recovery during mine closure.</p> <p>41. Provide a detailed description of the design and location of the proposal and associated activities with the potential to impact surface and groundwater, and the disturbance of acid sulfate soils, if present.</p> <p>42. Discuss seepage modelling of the waste rock and tailings storage facilities in relation to inland waters. Characterise geological structures which may result in greater connectivity between potential sources of seepage (open cut pits, waste rock landforms and tailings storage) and sensitive receptors and describe the potential impacts on those receptors, including impacts to water quality.</p> <p>43. Undertake hydrological investigations to determine:</p> <ol style="list-style-type: none"> The effects any modified surface drainage and surface discharge, will have on surface and groundwater quality and quantity, for a range of rainfall events, including forecasted maximum precipitation in consideration of climate change. The areas that are likely subject to direct and indirect impacts identified in (a). The predicted impacts of climate change on the post-development hydrology, including cumulative impacts and a range of climatic scenarios and rainfall events, including forecasted maximum precipitation. <p>44. Provide a Mine Closure Plan prepared in accordance with the Guidelines for Preparing Mine Closure Plans (DEMIRS, 2024).</p> <p>45. A peer review of information, modelling, surveys conducted, and management plans developed for this factor are required to determine that EPA objectives will be met.</p>
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Greenhouse Gas Emissions	
Required work	<p>46. Provide credible estimates of scope 1, scope 2 and scope 3 greenhouse gas (GHG) emissions (annual and total) in tonnes of carbon dioxide equivalent (CO₂-e) over the life of the proposal. Detail methods used to estimate emissions, provide supporting evidence, justifications and diagrams.</p> <p>47. Provide a breakdown of scope 1 GHG emissions that are covered by the Safeguard Mechanism as a designated facility.</p> <p>48. Provide the expected baseline GHG emissions number for the facility under the Safeguard Mechanism and how it was calculated, including the type of baseline (production adjusted or multi-year monitoring) and whether the facility is expected to be a trade exposed baseline adjusted (TEBA).</p> <p>49. Provide the avoidance and mitigation measures that have been adopted for reducing GHG emissions, including application against best practice, for the GHG emissions under the Safeguard Mechanism.</p> <p>50. Discuss whether the proposal expects to surrender ACCUs equal to or more than 30% of its expected baseline Scope 1GHG emissions.</p> <p>51. Provide a breakdown of estimated scope 1 and 2 GHG emissions by source that are not covered by the Safeguard Mechanism. Consider all proposed activities in determining the sources of emissions (e.g. clearing of land).</p> <p>52. Provide a clear pathway for reducing scope 1 GHG emissions not covered by the Safeguard Mechanism over the life of the proposal which demonstrates the EPA’s objective can be met, including justification for the GHG emissions baseline used.</p> <p>53. Provide the GHG emissions intensity of the proposal and benchmarking of GHG emissions intensity against comparable proposals and international and Australian best practice, where scope 1 GHG emissions are not covered by the Safeguard Mechanism.</p> <p>54. Provide the avoidance and mitigation measures, including offsets, that have and are proposed to be adopted for reducing scope 1, 2 and scope 3 GHG emissions, including application against best practice, for the GHG emissions not covered by the Safeguard Mechanism.</p> <p>55. Discuss how the scope 1, 2 and 3 GHG emissions from the proposal’s operation beyond 2050 is consistent with a global low-carbon transition to a net zero by 2050 scenario.</p>
Social Surroundings	
Required work	<p>56. Characterise and describe the social, cultural, amenity, and heritage values within and adjacent to the Proposal area and any sensitive receptors that may be directly or indirectly impacted as a result of this Proposal. This includes any receptors that may be affected by land clearing, construction and operation activities, noise and dust emissions, traffic, access, and amenity issues. Include relevant maps to show the locations of the sensitive receptors likely to be affected by the proposal. Identify sites of cultural significance within a regional context, in consultation with the Traditional Owners.</p>

	<p>57. Identify and assess potential impacts to any pastoral leases that may occur as a result of this proposal being implemented. Consult with pastoral leaseholders and users that may be impacted, either directly or indirectly, regarding operation and closure land uses.</p> <p>58. Describe and assess the potential impacts (direct, indirect and cumulative) to social surroundings as a result of changes to the environment from the Proposal considering Traditional Owners and Pastoral Stations and their activities on the land.</p> <p>59. Describe how the <i>Aboriginal Heritage Act 1972</i> processes will consider physical and biological impacts to Aboriginal cultural heritage values within the proposal area.</p> <p>60. Describe the likely outcomes of the <i>Aboriginal Heritage Act 1972</i> process (e.g. whether a section 18 permit or management plan will be required to authorise harm).</p> <p>61. Describe how application of the <i>Aboriginal Heritage Act 1972</i> is likely to result in consistency with the EPA's objective to protect social surroundings from significant harm.</p> <p>62. For areas outside the development envelope or within the development envelope but not regulated through the <i>Aboriginal Heritage Act 1972</i>, where the proposal is likely to have a physical, biological or abiotic impact to Aboriginal cultural values provide information regarding:</p> <ol style="list-style-type: none"> a. potential impacts (both direct and indirect, such as clearing, dust, noise or smell) b. the Aboriginal cultural heritage values likely to be significantly harmed by those impacts c. the extent and duration of the impacts on Aboriginal cultural heritage, taking cumulative effects into account d. the proposed avoidance and mitigation of impacts to Aboriginal cultural heritage values e. residual impacts to Aboriginal cultural heritage values f. the proposed environmental outcomes to protect Aboriginal cultural heritage values which are likely to be significantly harmed by a direct or indirect impact from the proposal. <p>63. Identify the relevant Aboriginal groups and Traditional Owners who have or will be consulted.</p> <p>64. Provide details on the engagement and/or consultation process that has or will be undertaken with relevant Aboriginal groups and Traditional Owners and include:</p> <ol style="list-style-type: none"> a. evidence of consultation about the proposal and its physical, biological or abiotic impacts on Aboriginal cultural heritage values, including information about proposed avoidance and mitigation b. demonstrate how a reasonable opportunity has been provided to relevant Aboriginal groups and Traditional Owners to meaningfully engage on identifying the cultural heritage values, understanding the physical, biological or abiotic impacts on those values, and contributed to the proposed avoidance and mitigation
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	<ul style="list-style-type: none"> c. outcomes of any consultation undertaken, including the response to matters raised d. a summary of the consultation process and outcomes as it relates to the proposal’s physical and/or biological impacts on Aboriginal cultural heritage values
<p>Landforms</p>	
<p>Required work</p>	<ul style="list-style-type: none"> 65. Identify landforms likely to be impacted. Identify and describe areas that will be altered, both temporarily and permanently, those that will remain as a structural or visual impact on the landform, and those that are proposed to be restored and/or revegetated. 66. Provide information on the significance of the Weeli Wolli delta and Fortescue Marsh landforms and land systems to be impacted, including, but not limited to, the Mindy Gorge, in terms of intactness, uniqueness and/or regional significance having regard to ecological function including restricted soil types, geodiversity values and habitat for species and also from a visual landscape perspective. 67. Identification of the environmental values supported by the landform (e.g. geodiversity values, ecological function, habitat etc.), and a discussion of the interrelationships between the values including how the proposal will affect the role of the landform in maintaining these values (e.g. through changes in surface water or groundwater flows, wind movement, precipitation, temperature, stability, landscape connectivity, and soil composition / chemistry). 68. An analysis and discussion of whether the landform is robust and therefore less sensitive to damage or degradation from cumulative impacts in the region, development activities, or whether it is easily disturbed or degraded 69. Describe and assess the significance of potential direct, indirect and cumulative impacts to the system within and directly adjacent to the Proposal area. Include an analysis of the nature, magnitude and duration of the impacts (including extent, severity and duration). Provide information on the cumulative impacts of the proposal in the context of other existing or reasonably foreseeable development within the Fortescue Marsh. 70. Consider any potential risks or impacts (direct, indirect and cumulative) to the proposed Fortescue Marsh Nature Reserve (<i>Plan for Our Parks, Fortescue Marsh Nature Reserve (Niyaparli Country) - draft joint management plan 2024</i> (DBCA, 2024), or most current version thereof) that may result from proposal implementation, including post closure. 71. Synthesise the above information (i.e. tables, geospatial information, photos, aerials) to describe, spatially define and visually represent the extent of temporary (define timescales) and permanent impacts to the landform, its ecological function and environmental values.

2.3 Cumulative impact assessment – scoping of activities, boundaries and environmental values for relevant environmental factors

The ERD will include a cumulative impact assessment (CIA) to assess the Proposal's contribution to impacts on relevant environmental values. Describe, quantify and discuss the direct and indirect cumulative impacts to environmental values and objectives, within the boundaries of the Fortescue Management Zone and Fortescue River Catchment Area. The CIA will consider successive, incremental and interactive impacts of the proposal on the environment, with one or more past, present and reasonably foreseeable future activities.

Noting the increased level of development in the region, assessment of cumulative impacts will be required to address how the objectives of the environmental factors will be met. The proponent will be required to examine the cumulative impacts of this proposal alongside the proposed impacts of the Nyidinghu Iron Ore Mine and East Hamersley Railway proposals.

The CIA must also include other development and industries in the catchment area. For example, this will include but is not limited to Fortescue's Chichester Hub, Pilbara Iron Ore Port North-South Railway, Roy Hill, Koodaideri Iron Ore Mine and Infrastructure Project, Iron Valley, Ferraus Pilbara Project, Marillana Iron Ore and Yandicoogina Iron Ore. There are several other mining and related operations which sit adjacent to the proposed project that are operated by others which should also be included. The proponent will seek to use available information publicly available online such as the EPA website, Clearing Permit Systems (CPS) and through data sharing arrangements to gather data in addressing this aspect.

The ERD will include a CIA of combined effects of different cumulative impacts upon the following environmental factors: Flora and Vegetation, Subterranean Fauna, Terrestrial Fauna, Inland Waters (with a focus on the Fortescue Marsh, Mindy Mindy Creek, Coondiner Creek, Weeli Wolli Creek, and other aquifers within the catchment area) and Greenhouse Gas Emissions.

Table 4 outlines the scope of the CIA, noting that throughout the preparation of the ERD, there may be additional environmental values identified that are to be included.

Table 4: Scope of the cumulative impact assessment.

Flora and Vegetation	
Required work	<ul style="list-style-type: none"> • The boundaries of assessment include the proposal development envelope, and any direct or indirect impacts that may occur outside the development envelope, including the Fortescue Management Zone, Weeli Wollie and Fortescue sub-catchments, and Upper Fortescue Catchment area. • Environmental values include the following, which may be considered preliminary until further surveys are completed and additional values may be included (exclusion of any environmental values require justification): <ul style="list-style-type: none"> ○ Fortescue Marsh Management Areas ○ Weeli Wollie spring community Priority 1 Priority Ecological Community (PEC) ○ Riparian flora and plant communities of springs and river pools with high water permanence of the Pilbara Region PEC 2 ○ Kumina Land System PEC 3 ○ Vegetation of sand dunes of the Hamersley Range/Fortescue Valley Priority 3 PEC ○ Fortescue Marsh (Marsh Land System) Priority 1 PEC ○ Narbung Land System Priority 3 PEC ○ Coolibah-lignum flats: <i>Eucalyptus victrix</i> over lignum community in the Pilbara (subtype 1) - Coolibah and mulga (<i>Acacia aneura</i>) woodland over lignum and tussock grasses on clay plains (Coondewanna Flats and Wanna Munna Flats) PEC 3 ○ Sheet flow dependent vegetation ○ Vegetation Association 18, 29, 111, 82 and 175 ○ Conservation significant species that occur within the development envelope, and outside the development envelope that may be directly or indirectly impacted by proposal activities ○ Conservation significant species and communities that occur within the development envelope, and outside the development envelope that may be directly or indirectly impacted by proposal activities ○ Other environmental values as identified in future studies. • Activities considered include clearing 12,487 hectares (ha) of native vegetation, groundwater abstraction, alteration to surface water flows and groundwater systems, and surplus water management.

Subterranean Fauna	
Required work	<ul style="list-style-type: none"> • The boundaries of assessment include proposal development envelope, and any direct or indirect impacts that may occur outside the development envelope, including the Fortescue Management Zone, Welli Wolli and Fortescue sub catchments, and Upper and Lower Fortescue Catchment area. • Environmental values at the time of ESD publication are preliminary pending further surveys and will be required to address impacts to significant or restricted subterranean fauna species and habitat. • Activities considered include mine pit excavation, ground disturbance, groundwater abstraction, surplus water discharge/reinjection, placement of infrastructure and waste landforms, exposure of potential acid forming materials and post-closure formation of pit lake.
Terrestrial Fauna	
Required work	<ul style="list-style-type: none"> • The boundaries of assessment include the proposal development envelope, and any direct or indirect impacts that may occur outside the development envelope, including the Fortescue Management Zone, Mindy Mindy Creek and Coondiner Creek catchment areas, and Upper Fortescue Catchment area. • Environmental values include the following, which may be considered preliminary until further surveys are completed and additional values may be included (exclusion of any environmental values require justification): <ul style="list-style-type: none"> ○ Fauna habitat ○ Conservation significant terrestrial fauna species (including short range endemic species and assemblages) ○ Aquatic invertebrate species ○ Other environmental values as identified in additional studies. • Activities considered include clearing of fauna habitat, vehicle and machinery movements, dewatering, alterations and disruptions to surface water flows, surplus water management and waste disposal.
Inland Waters	
Required work	<ul style="list-style-type: none"> • The boundaries of assessment include the proposal development envelope, and any direct or indirect impacts that may occur outside the development envelope, including the Fortescue Management Zone, Fortescue Marsh catchments, Mindy Mindy Creek and Coondiner Creek catchment areas, Upper Fortescue Catchment area, and other aquifers present in these locations. • Environmental values include the following, which may be considered preliminary until further surveys are completed and additional values may be included (exclusion of any environmental values require justification): <ul style="list-style-type: none"> ○ Mindy Mindy Creek ○ Coondiner Creek

	<ul style="list-style-type: none"> ○ Weeli Wolli Creek ○ Fortescue Marsh ○ Claypans ○ Other key water features, including major drainage lines, aquifers and sheetflow areas, as identified in other studies. ● Activities considered include groundwater abstraction for water supply and mine dewatering, groundwater reinjection, construction of infrastructure, including surface water management infrastructure and alteration of surface water flows, use and storage of hydrocarbons and chemicals, storage of mine waste (waste rock and tailings), formation of pit lakes and closure-related impacts.
Greenhouse Gas Emissions	
Required work	<ul style="list-style-type: none"> ● Boundaries of assessment include GHG emissions contributions to the Western Australian resource sector (mining, processing, transport, oil and gas), and the cumulative emissions contributed to total West Australian greenhouse gas emissions. ● Cumulative emissions for this proposal include those associated with the construction, operation and closure of the proposal from construction activities, mining activities, haulage, processing and transportation of product for export. ● Environmental values include scope 1 and 2 generations, and other environment receptors at risk due to climate change ● Activities considered include diesel combustion, use of equipment, vehicles and clearing.

2.4 Holistic impact assessment

Where the combination of the environmental effect of two or more environmental factors or values has the potential to result in a significant impact, provide a holistic impact assessment of the proposal on the environment, applying the EPA’s principles and the EPA’s objectives for environmental factors:

- Outline the connections and interactions between environmental factors or values that in combination have the potential to have a significant effect on the environment.
- Provide a diagram of the links between environmental factors or values.
- Summarise the potential combined environmental effects.
- Summarise any additional mitigation measures proposed to mitigate combined environmental effects.
- Summarise any significant residual combined environmental effects.
- Summarise proposed additional environmental outcomes for the proposal on the environment as a whole, and (optional) any proposed conditions for consideration by the EPA.

Provide a summary of the environmental effect of the proposal on the environment as a whole (as distinct from a summary of the effect for each individual environmental factor or environmental value).

2.5 Offsets

Provide details of the proposed offset including but not limited to:

- objectives and outcomes
- description of actions to be undertaken
- specific and measurable success criteria
- timelines and milestones
- monitoring to assess offset implementation
- reporting details and timing
- financial arrangements
- risks and contingency measures
- governance arrangements including responsibilities and legal obligations
- provide evidence of consultation on offset with relevant stakeholders.

Identify and quantify the significant residual impacts and proposed offsets, including completing the offset template (an example is in Appendix 1 of the WA Offsets Guidelines) and the residual impact significance model table (an example is on Page 11 of the WA Environmental Offsets Guideline).

Where significant residual impacts remain, propose an appropriate offsets package and demonstrate how the proposed offset will counterbalance the significant residual impact.

Demonstrate consideration of the six Principles outlined in the WA Environmental Offsets Policy and WA Environmental Offset Guideline.

Outline how the offset aligns with relevant plans and policies, such as recovery plans.

Evidence that supports the success or viability of the offset (include as an appendix where required). Where a contribution to the Pilbara Environmental Offsets Fund is proposed to offset the significant residual impacts, provide an Impact Reconciliation Procedure, including the relevant spatial data, prepared in accordance with Instructions: Preparing Impact Reconciliation Procedures and Impact Reconciliation Reports (or any subsequent revisions).

Refer to the relevant guidance for further information on offsets:

- Statement of environmental principles, factors, objectives and aims of EIA
- Environmental factors: WA Environmental offsets policy and WA environmental offset guidelines.

Note: Offsets are not appropriate for all proposals. They should usually only be considered as the final step in the mitigation hierarchy, and only for significant residual impacts for environmental factors. Proponents must provide sufficient evidence about and assess whether (and how) an offset is likely to counter-balance a significant residual impact. Conclusions about this cannot be based on assumptions or conjecture.

2.6 Stakeholder consultation

The proponent must consult with stakeholders who are affected by or are interested in the proposal. This includes the decision-making authorities, other relevant state (and Commonwealth) government agencies and local government authorities, Traditional Owners, the local community and environmental non-government organisations.

Additional stakeholders that must be meaningfully consulted include, but are not limited to:

- Nyiyaparli People and Elders
- Karlka Nyiyaparli Aboriginal Corporation
- Pastoral leaseholders, where the development envelope overlaps the pastoral lease or may otherwise, directly or indirectly, affect the pastoral lease.

The proponent must document the following in the ERD:

- List the key stakeholders for the proposal.
- Discuss the stakeholder identification process.
- Discuss the process for stakeholder engagement for the proposal, including ongoing consultation.
- Include outcomes of consultation with stakeholders and a detailed response to issues raised by them (or reference the section in the ERD where they are addressed) (ERD Template Table 5). Identify who was consulted, summary of discussions, key issues / matters raised, outcomes and whether matters raised were resolved or outstanding.
- Do not include generic outcomes of discussions with decision making authorities or stakeholders – do include specific outcomes.
- Justify if consultation has not been undertaken.

2.7 Proposal Content Considerations

Within the ERD, the proponent is required to clarify how the [Mindy South Iron Ore](#), [East Hamersley Railway Project](#) and [Nyidinghu Iron Ore Mine](#) proposals are functionally separate from each other. In the Introduction of the ERD, the proponent is to address the following:

1. Justify and explain how the proposals will operate separately from each other (e.g. demonstrate how the proposals are not codependent).
 - For example, should the Part IV assessment outcome of the East Hamersley Railway Project differ to either of the Mindy South or Nyidinghu Iron Ore Mines, would the proposal content (e.g. transport of ore) of the mines change? And if so, outline and justify the proposed course of action.
2. To verify the independence of the East Hamersley Railway Project to either of the Mindy South or Nyidinghu Iron Ore Mines proposals, justification needs to be provided that the legislative responsibilities of the Minister for Environment under the EP Act, or other decision-making authorities (DMAs), will not be compromised in the case that the EPA's recommendations for implementation differ between the proposals.

3. Decision-making authorities

The Proponent has identified the State decision-making authorities listed in Table 4 for this Proposal. Additional decision-making authorities may be identified during the course of the assessment. The proponent is required to update and complete the information in Table 4 and Table 5, which is to be provided in the ERD on a per impact basis.

Information about how DMAs processes can meet expected outcomes and EPA objectives is preliminary or may be unknown at this ESD stage.

Table 4: Decision making authorities and processes

Decision-making authority	Legislation or Agreement regulating the activity	Approval required (and specify which proposal element the approval is related to)
Minister for Aboriginal Affairs	<i>Aboriginal Heritage Act 1972</i>	Section 18 consent to impact a registered Aboriginal heritage site.
Minister for Environment	<i>Biodiversity Conservation Act 2016</i>	Section 40 authority to take or disturb threatened species. Section 45 authority to modify occurrence of a threatened ecological community.
Minister for Mines and Petroleum	<i>Mining Act 1978</i>	Grant of appropriate tenure. Section 16 approval to lease, transfer or otherwise dispose of land under the Land Administration Act (note: applies when land is leased or disposed of under the LAA).
Minister for State Development	<i>Iron Ore (FMG Chichester Pty Ltd) Agreement Act 2006</i>	State Agreement Act
Minister for Water	<i>Rights in Water and Irrigation Act 1914</i>	Section 17 permit to interfere with beds and banks. Section 26 A for dewatering licence. Section 5C licence to take water.
	<i>Waterways Conservation Act 1976 and Waterways Conservation Regulations 1981</i>	Section 47 disposal licence.
Chief Executive Officer, Department of Biodiversity, Conservation and Attractions (DBCA)	<i>Biodiversity Conservation Act 2016</i>	Section 5 authority to take flora and fauna (other than threatened species).
	<i>Conservation and Land Management Act 1984 (CALM Act)</i>	Permit/lease/licence in respect of State forests, timber reserves, national parks, conservation parks, nature reserves and land vested in Conservation and Parks Commission.

		<i>The proposed mine development envelope shares a boundary with Unallocated Crown Land, which is proposed for conservation under the CALM Act with DBCA as the land manager.</i>
Chief Dangerous Goods Officer, Department of Energy, Mines, Industry Regulation and Safety	<i>Dangerous Goods Safety Act 2004</i>	Storage and handling of dangerous goods.
Executive Director Resource and Environmental Compliance, Department of Energy, Mines, Industry Regulation and Safety	<i>Mining Act 1978</i>	Mining Proposal and Mine Closure Plan.
State Mining Engineer, Department of Energy, Mines, Industry Regulation and Safety	<i>Mines Safety and Inspection Act 1994</i>	Mine safety. Section 42(3)a approval to commence mining operations.
Chief Executive Officer, Department of Water and Environmental Regulation	<i>Environmental Protection Act 1986</i>	Part V works approval and licence.
Shire of East Pilbara	<i>Building Act 2011</i>	Building permit (worker accommodation, offices etc).
	<i>Planning and Development Act 2005</i>	Development approval.
<i>And other DMAs as identified.</i>		

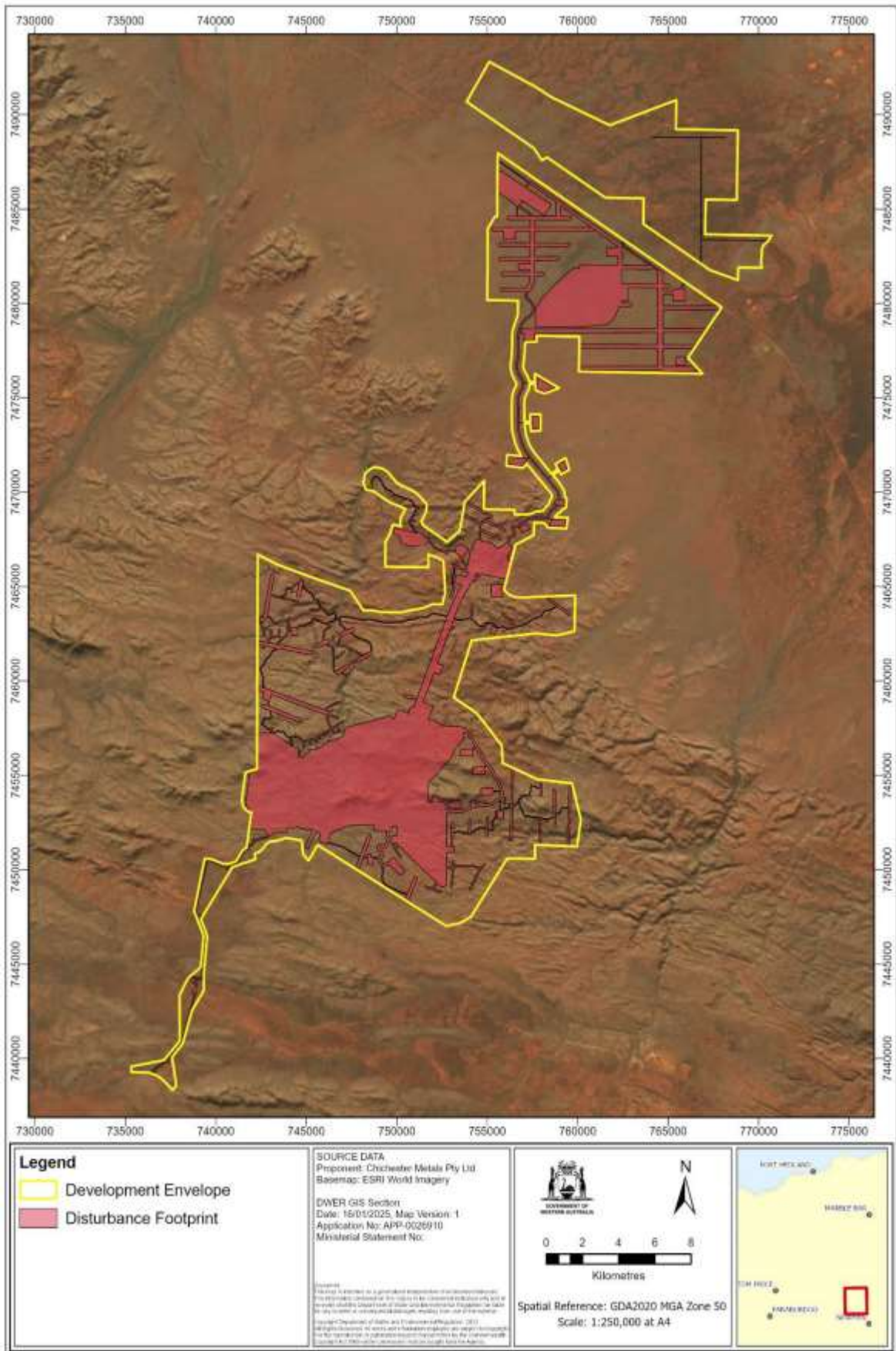
Table 5: Other statutory decision-making process which can mitigate potential impacts on the environment

Environmental impact	How is the impact regulated by other decision-making process(es)?	Limit(s) of the decision-making process(es) to regulate the impact e.g., time limits, excluded operations	Likely environmental outcome of decision-making process(es), and consistency with EPA objective	Conditions, enforcement, and review process required by decision-making process(es)	Stakeholder engagement in decision-making process(es)
<i>Proponent to populate and provide in the environmental review document.</i>					

Figure 1: Regional location of the Mindy South Iron Ore Mine.



Figure 2: Mindy South Iron Ore Mine development envelope and disturbance footprint.



Appendix 1 – Policy and Guidance

Flora and Vegetation

EPA policy and guidance

- *Statement of Environmental Principles, Factors and Objectives* (2023)
- *Instructions on how to prepare an environmental review document* (2021)
- *Environmental factor guideline – Flora and vegetation* (2016)
- *Technical guidance: Flora and vegetation surveys for environmental impact assessment* (2016)
- *Instructions for the preparation of data packages for the Index of Biodiversity Surveys for Assessments (IBSA)* (2021)
- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans* (2023)
- *Instructions for preparing Impact Reconciliation Procedures and Impact Reconciliation Reports* (2021)
- *Evaluating the environmental condition of Weeli Wolli Creek* (2018)
- *Cumulative environmental impacts of development in the Pilbara region, s16(e) of the Environmental Protection Act, 1986* (2014)
- *Environmental and water assessments relating to mining and mining-related activities in the Fortescue Marsh management area, s16(e) of the Environmental Act 1986* (2013)

Other policy and guidance

- *Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, Department of Sustainability, Environment, Water, Population and Communities* (2012)
- *WA Environmental Offsets Policy, Government of Western Australia* (2011)
- *WA Environmental Offsets Guidelines, Government of Western Australia* (2014)
- *WA Environmental Offsets Template* (2014)
- *Fortescue Marsh Management Strategy 2018-2024, Department of Biodiversity, Conservation and Attractions* (2018)
- *Pilbara Conservation Strategy, Government of Western Australia* (2018)
- *DBCA's Impact and Invasiveness Rating for the Pilbara Region* (2023)
- *Australian Weeds Strategy 2017–2027. Invasive Plants and Animals Committee. Commonwealth of Australia* (2017)

Subterranean Fauna

EPA policy and guidance

- *Statement of Environmental Principles, Factors and Objectives* (2023)
- *Instructions on how to prepare an environmental review document* (2021)
- *Environmental factor guideline – Subterranean fauna* (2016)
- *Technical guidance: Subterranean fauna survey for environmental impact assessment* (2021)
- *Instructions for the preparation of data packages for the Index of Biodiversity Surveys for Assessments (IBSA)* (2021)

- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans (2024)*
- *Cumulative environmental impacts of development in the Pilbara region, s16(e) of the Environmental Protection Act, 1986 (2014)*
- *Environmental and water assessments relating to mining and mining-related activities in the Fortescue Marsh management area, s16(e) of the Environmental Act 1986 (2013)*

Other policy and guidance

- *Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, Department of Sustainability, Environment, Water, Population and Communities (2012)*
- *WA Environmental Offsets Policy, Government of Western Australia (2011)*
- *WA Environmental Offsets Guidelines, Government of Western Australia (2014)*
- *WA Environmental Offsets Template (2014)*
- *Fortescue Marsh Management Strategy 2018-2024, Department of Biodiversity, Conservation and Attractions (2018)*
- *Pilbara Conservation Strategy, Government of Western Australia (2018)*

Terrestrial Fauna

EPA policy and guidance

- *Statement of Environmental Principles, Factors and Objectives (2023)*
- *Instructions on how to prepare an environmental review document (2021)*
- *Environmental factor guideline – Terrestrial fauna (2016)*
- *Technical guidance: Terrestrial vertebrate fauna surveys for environmental impact assessment (2020)*
- *Technical guidance: Sampling of short range endemic invertebrate fauna (2016)*
- *Instructions for the preparation of data packages for the Index of Biodiversity Surveys for Assessments (IBSA) (2024)*
- *Instructions for preparing Impact Reconciliation Procedures and Impact Reconciliation Reports (2024)*
- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans (2024)*
- *Cumulative environmental impacts of development in the Pilbara region, s16(e) of the Environmental Protection Act, 1986 (2014)*
- *Environmental and water assessments relating to mining and mining-related activities in the Fortescue Marsh management area, s16(e) of the Environmental Act 1986 (2013)*

Other policy and guidance

- *Interim guideline for preliminary surveys of night parrot (*Pezoporus occidentalis*) in Western Australia (2017)*
- *Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, Department of Sustainability, Environment, Water, Population and Communities (2012)*
- *WA Environmental Offsets Policy, Government of Western Australia (2011)*

- *WA Environmental Offsets Guidelines, Government of Western Australia (2014)*
- *WA Environmental Offsets Template (2014)*
- *Fortescue Marsh Management Strategy 2018-2024, Department of Biodiversity, Conservation and Attractions (2018)*
- *Pilbara Conservation Strategy, Government of Western Australia (2018)*
- *National Light Pollution Guidelines for Wildlife (2023)*
- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans (2024)*
- *A review of ghost bat ecology, threats and survey requirements (2022)*
- *A review of Pilbara leaf-nosed bat ecology, threats and survey requirements (2022)*

Terrestrial Environmental Quality

EPA policy and guidance

- *Statement of Environmental Principles, Factors and Objectives (2023)*
- *Environmental Factor Guideline - Terrestrial Environmental Quality (2016)*
- *Instructions on how to prepare an environmental review document (2021)*
- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans (2023)*
- *Cumulative environmental impacts of development in the Pilbara region, s16(e) of the Environmental Protection Act, 1986 (2014)*
- *Environmental and water assessments relating to mining and mining-related activities in the Fortescue Marsh management area, s16(e) of the Environmental Act 1986 (2013)*

Other policy and guidance

- *Guideline for preparing Mining Development and Closure Proposals (2024)*
- *Pilbara Conservation Strategy, Government of Western Australia (2018)*
- *Preventing acid and metalliferous drainage, Australian Government Department of Industry, Tourism and Resources (2016)*
- *Tailings Storage Facilities in Western Australia – Code of Practice, Department of Mines and Petroleum (2013)*
- *Guide to the Preparation of a Design Report for Tailings Storage Facilities (TSFs), Department of Mines and Petroleum (2015)*

Inland Waters

EPA Policy and Guidance

- *Statement of Environmental Principles, Factors and Objectives (2023)*
- *Environmental Factor Guideline – Inland Waters (2018)*
- *Instructions on how to prepare an Environmental Review Document (2021)*
- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans (2023)*
- *Evaluating the environmental condition of Weeli Wolli Creek, (2018)*
- *Cumulative environmental impacts of development in the Pilbara region, s16(e) of the Environmental Protection Act, 1986 (2014)*

- *Environmental and water assessments relating to mining and mining-related activities in the Fortescue Marsh management area, s16(e) of the Environmental Act 1986 (2013)*

Other policy and guidance

- *Guideline for preparing Mining Development and Closure Proposals (2024)*
- *Pilbara Conservation Strategy, Government of Western Australia (2018)*
- *Fortescue Marsh Management Strategy 2018-2024, Department of Biodiversity, Conservation and Attractions (2018)*
- *DBCA (2024) Plan for our Parks. Fortescue Marsh Nature Reserve (Niyaparli Country) draft joint management plan 2024. Parks and Wildlife Service, Department of Biodiversity, Conservation and Attractions, Perth, Western Australia. Or most current published plan.*
- *ANZECC & ARMCANZ (2018) Australian and New Zealand Guidelines for Fresh and Marine Water Quality, Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand, Canberra.*

Greenhouse Gas Emissions

EPA policy and guidance

- *Statement of Environmental Principles, Factors and Objectives (2023)*
- *Environmental Factor Guideline – Greenhouse Gas Emissions (2023)*
- *Instructions on how to prepare an environmental review document (2021)*
- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans (2024)*

Other policy and guidance

- *Western Australian Climate Policy 2020*
- *Greenhouse Gas Emissions Policy for Major Projects Government of Western Australia (2024)*
- *National Greenhouse and Energy Reporting Scheme*

Social Surroundings

EPA policy and guidance

- *Statement of Environmental Principles, Factors and Objectives (2023)*
- *Environmental Factor Guideline – Social Surroundings (2023)*
- *Instructions on how to prepare an environmental review document (2021)*
- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans (2024)*
- *Cumulative environmental impacts of development in the Pilbara region, s16(e) of the Environmental Protection Act, 1986 (2014)*
- *Environmental and water assessments relating to mining and mining-related activities in the Fortescue Marsh management area, s16(e) of the Environmental Act 1986 (2013)*

Other policy and guidance

- *Environmental Protection (Noise) Regulations 1997*
- *Guideline for managing the impacts from dust and associated contaminants from land development sites, contaminated sites remediation and other related activities. Department of Water and Environmental Regulation (2011)*

- *Mine sites, exploration camps and construction villages - Scoping Tool: Public Health Considerations, Department of Health (2011)*
- *Fortescue Marsh Management Strategy 2018-2024, Department of Biodiversity, Conservation and Attractions (2018)*
- *The Interim Engaging with First Nations People and Communities on Assessments and Approvals under Environment Protection and Biodiversity Conservation Act 1999 (interim guidance) (2023)*

Landforms

EPA policy and guidance

- *Statement of Environmental Principles, Factors and Objectives (2023)*
- *Instructions on how to prepare an environmental review document (2021)*
- *Instructions on how to prepare Environmental Protection Act 1986 Part IV Environmental Management Plans (2023)*
- *Environmental Factor Guideline – Landforms (2018)*
- *Cumulative environmental impacts of development in the Pilbara region, s16(e) of the Environmental Protection Act, 1986 (2014)*
- *Environmental and water assessments relating to mining and mining-related activities in the Fortescue Marsh management area, s16(e) of the Environmental Act 1986 (2013)*

Other policy and guidance

- *Pilbara Conservation Strategy, Government of Western Australia (2018)*
- *DBCA (2024) Plan for our Parks. Fortescue Marsh Nature Reserve (Niyaparli Country) draft joint management plan 2024. Parks and Wildlife Service, Department of Biodiversity, Conservation and Attractions, Perth, Western Australia. Or most current published plan.*