

EPBC Act referral



Australian Government

Department of Agriculture, Water and the Environment

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Title of proposal	2021/9064 - Ashburton Infrastructure Project
Section 1	
Summary of your proposed action	
1.1 Project industry type	Mining
1.2 Provide a detailed description of the proposed action, including all proposed activities	
<p>Onslow Iron Pty Ltd (ACN 612 668 201, herein MRL) a wholly owned subsidiary of Mineral Resources Limited (ACN 118 549 910) is undertaking planning for the Ashburton Infrastructure Project (AIP, the Proposed Action) to service iron ore mining and export developments in the West Pilbara region of Western Australia (WA) (Att1_Figures Fig 1_Location).</p> <p>As part of an overarching business and operational strategy, MRL is undertaking planning to unlock stranded mineral assets in the West Pilbara region. The AIP will support MRL's approved mine, the Buckland Project (herein referred to as Bungaroo South) (Ministerial Statement [MS]906 and MS1147), other future iron ore deposits at Kumina and facilitate export opportunities for third party stranded iron ore from the West Pilbara.</p> <p>The AIP includes a fully sealed private haul road, commencing at the boundary of the approved Bungaroo South haul road and will continue approx. 150km west to the Port of Ashburton (Port), where landside and marine facilities are proposed to be developed to export iron ore. (Att1_Figures, Fig1_Location). The AIP Development Envelope (DE) comprises four separate DEs, the Haul Road DE and three port marine DEs (Landside DE, Nearshore DE and Offshore DE) (Att1_Figures, Fig 2_DEs).</p> <p>Potential direct impacts on terrestrial MNES from the Proposed Action within the Haul Road DE are due to land clearing of up to 1,564ha of native vegetation. These direct impacts include the loss of fauna habitat (breeding, foraging and dispersal) and fragmentation of fauna habitats, limiting fauna access and movement along the haul road.</p> <p>Potential indirect impacts to terrestrial MNES include species disturbance associated with increased dust, noise, vibration or light emission from clearing, construction and operations, habitat degradation due to introduction or spread of weeds, increase in feral predators and altered fire regimes from land clearing or vehicle and machinery movement (for information on impacts see Att2_TerrSD, Section 4 pg 52).</p> <p>Export facilities within the Port include a dedicated nearshore berth facility along with offshore anchorages. The AIP will initially support the export of approximately 30million tonnes per annum of (Mtpa) of iron ore through the Port over a 10year period as a Direct Shipping Ore (DSO). Future plans (pending approvals) are for the AIP to support export of up to 40Mtpa over a 30year period. These future plans are discussed in more detail within this section of this submission.</p> <p>The AIP will utilise proposed and existing marine facilities to load ore onto Transhipping Vessels (TSVs) that will travel along Pilbara Port Authorities (PPA) existing shipping channel, out to deep water (up to 40m depth) to five dedicated anchorage points approx. 10km from Thevenard Island. Iron ore will be loaded from TSVs onto Ocean Going Vessels (OGVs) at a maximum of two of the five anchorage points at any one time. Five anchorage points have been included within the AIP to allow for operational flexibility to factor in for adverse weathers conditions, operational issues, maintenance requirements and ship scheduling.</p> <p>Potential direct impacts on marine MNES result from piling and dredging, vessel strikes, osmotic stress from brine discharge and light pollution from construction and operations.</p> <p>Potential indirect impacts on marine fauna include temporary, localised turbidity increase from dredging, hydrocarbon spill causing marine fauna injury or fatalities and/or impact on critical habitat, entanglement/ plastic ingestion from marine debris and introduction of marine pest species from operational vessels resulting in decline in local marine fauna populations (for information on impacts see Att5_MFIA Section 6.2 pg 32).</p> <p>The Port, originally established by Chevron for the Wheatstone Liquified Natural Gas Project (Wheatstone) is located adjacent to the Ashburton North Strategic Industrial Area (ANSIA) and is managed by PPA.</p> <p>In 2020, a change in the nominated proponent from Chevron to PPA was approved for the shipping channel, Materials Offloading Facility (MOF) and access road at the Port.</p> <p>Given the long-term mining opportunities in the greater West Pilbara region, MRL envisions that access to AIP infrastructure may relieve environmental and economic constraints for other projects in the West Pilbara. Due to overlapping tenure in a section of the Haul Road DE with API Management Pty Ltd (APIM)s West Pilbara Iron Ore Project (MS1026, MS1027 & EPBC2009/4706) the disturbance footprints of the two have been consolidated and progress is underway to incorporate the APIM gas pipeline and haul road link within the Proposed Action Haul Road DE. As such, the Proposed Action presents an immediate opportunity to minimise and consolidate currently approved, and reasonably foreseeable future environmental impacts.</p> <p>MRL has commenced engagement with key decision-making authorities regarding the AIP and MRL's broader strategy and has received in-principal support from the WA Government. The expected life of the AIP will contribute significantly to the economy over this period.</p> <p>Evaluation of the proposed haul road alignment was completed through iterative reviews of environmental, heritage, social, economic, constructability and engineering aspects. These reviews resulted in land access negotiations and the preparation of Social and Cultural Heritage Management Plans (SCHMPs) with key traditional owner groups (under development).</p> <p>The primary rationale for the private haul road is to remove mine haul vehicles from public roads. The AIP haul road DE was</p>	



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reduced by 10,053ha (approx. 38%) from initial designs to the current proposed DE, based upon the results of environmental baseline studies and investigations, avoidance of known heritage areas, safety and cost considerations (Att_1_Figures, Fig3_DE_reduction). Of note, the haul road footprint was modified/realigned in certain areas to avoid direct impacts to Rocky Hills/Mesa habitat types that support known populations of conservation significant taxa Dasyurus hallucatus (Northern Quoll), Macroderma gigas (Ghost Bat) and Rhinonicteris aurantia (Pilbara Leaf-nose Bat).

In relation to the port, the location of the jetty and associated components within the Landside and Nearshore DEs are situated away from mangroves adjacent to existing port infrastructure. The design of the piled jetty structures also minimises impacts on longshore current patterns.

MRL is proposing to use PPAs existing Spoil Ground C adjacent to the Port for placement of dredge material. Utilising an existing offshore disposal location vs developing a new offshore dredge material area or an onshore disposal area, was considered to present a better overall outcome, due to the avoidance of new disturbance to the seabed or native vegetation. Detailed investigation into onshore disposal was not recommended nor undertaken due to the known nature of potential spoil material from the AIP being unsuitable composition for onshore disposal.

The final location of the five anchorage points within the Offshore DE were selected to avoid benthic habitat which was mapped within the anchorage investigation area as being limited to the 30m depth contour, with the seabed beyond this depth being predominantly bare sand (Att1_Figures; Att4_Anchorage).

1.3 What is the extent and location of your proposed action?

See Appendix B

1.5 Provide a brief physical description of the property on which the proposed action will take place and the location of the proposed action (e.g. proximity to major towns, or for off-shore actions, shortest distance to mainland)

The AIP is located on mining tenure, pastoral leases, the ANSIA corridor and the Port and comprises four main components:

- Haul Road DE – an approx. 150km fully sealed private haul road from the boundary of the approved Bungaroo South haul road to Onslow Road predominately located on pastoral and mining tenure. The terrain is flat to undulating.
- Landside DE – storage and bulk handling of iron ore, a water desalination plant, a power station, bulk storage of fuel, administration building, and a sewage facility at the Port and within the ANSIA, 12km south-west of Onslow and 1,150km north of Perth. The terrain is flat.
- Nearshore DE – a nearshore dedicated berth, modular jetty wharf and ship loader at the Port adjacent to the Landside DE. Located within water depths of up to 8m.
- Offshore DE - an offshore transshipment area in State Waters for offshore anchorages approx. 10km from Thevenard Island and 35km from the coast. Located within water depths of 20m to 57m.

1.6 What is the size of the proposed action area development footprint (or work area) including disturbance footprint and avoidance footprint (if relevant)?

The size of the proposed AIP development envelope is 20,821ha. MRL are aware that a slight discrepancy in data occurs between Section 1.3 and 1.6, however the overall value of 20,821ha is the correct Development Envelope area . The breakdown of the four main component's development envelopes and disturbance footprints are as follows:

- Haul Road DE – 16,209ha development envelope with up to 1,564ha of native vegetation clearing.
- Landside DE – 118ha development envelopment with no clearing of native vegetation required.
- Nearshore DE – 11ha development envelope with a disturbance footprint of 5ha.
- Offshore DE – 4483ha development envelopment with no disturbance to Benthic Communities and Habitat.

1.7 Proposed action location

Other - 12km SW of Onslow at the Port of Ashburton, extending inland 150km east to 45km Sth of Pannawonica

1.8 Primary jurisdiction

Western Australia

1.9 Has the person proposing to take the action received any Australian Government grant funding to undertake this project?

Yes No

1.10 Is the proposed action subject to local government planning approval?

Yes No



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1.11 Provide an estimated start and estimated end date for the proposed action	Start Date End Date	22/03/2022 22/03/2052
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1.12 Provide details of the context, planning framework and state and/or local Government requirements

The following primary approvals will be required:

- Referrals under Part IV of the EP Act and Environmental Protection and Biodiversity Conservation Act 1999 (EPBC Act)
- Sea Dumping Permit under Environment Protection (Sea Dumping) Act 1981.

Commonwealth Primary Approvals

Matters of National Environmental Significance (MNES) and actions on, or affecting the environment of, Commonwealth land are protected under the Commonwealth EPBC Act. Before taking an action that could potentially have a significant impact on a MNES, it must be referred to the Australian Government Minister for the Environment under Part 7 of the EPBC Act. As such, the Proposed Action is being referred to the DAWE for consideration under the EPBC Act (this referral). However, MRL considers potential for impacts on MNES is unlikely and should the AIP be deemed a Controlled Action, MRL will request assessment under s.45 of the EPBC Act, as a bilateral assessment under the EP Act.

DAWE is the primary Determining Authority for the assessment of any approvals under the Commonwealth Environment Protection (Sea Dumping) Act 1981, which may relate to the loading and any offshore disposal of sediment during dredging at the Port. PPA conducts maintenance dredging at the Port in accordance with an approved Long Term Dredge Management Plan and associated 5 year Sea Dumping Permit (SD2016/3282). However, as the Proposed Action requires placement of spoil material from capital dredging activities at Spoil Ground C, MRL will lodge a specific Disposal Application - Dredged or Excavated Material for the AIP, for assessment and approval by DAWE.

State Approvals

The principal legislation governing environmental assessment of Proposals in WA is the EP Act. Environmental Impact Assessment (EIA) of these Proposals is undertaken by the EPA in accordance with Part IV Division 1 of the EP Act and the Environmental Impact Assessment (Part IV Divisions 1 and 2) Administrative Procedures 2016. The AIP will be referred the under Part IV s38 of the EP Act, and MRL anticipates that due to a number of potential factors that may be impacted by the AIP (Marine Environmental Quality, Marine Fauna, Flora and Vegetation, Terrestrial Fauna, Greenhouse Gases and Social Surroundings), it will be assessed based on referred information .

Other environmental approvals if required will be sought for the implementation of the Proposed Action, including:

- s.18 clearance under Aboriginal Heritage Act 1972
- Mining Proposal and Mine Closure Plan under Mining Act 1978
- Works Approval and Operating Licence Applications under Part V of the EP Act
- Bed and Banks Permit under Rights in Water and Irrigation Act 1914 (RIWI Act)
- Licence to construct a well (26D) and Licence to abstract water (5C) under the RIWI Act
- Approval to construct/ install an apparatus for the treatment of sewerage under the Health Act 1911 (and associated regulations).

The AIP is proposed to commence at the western extent of Bungaroo South haul road (approved under MS906 and MS1147) and all subsequent approvals have been received under the Mining Act 1978 and Part V of the EP Act. Bungaroo South involves an 8Mtpa mine, processing facilities and supporting infrastructure. A 176km haul road from the Bungaroo South mine site to the Cape Preston Export Facility was approved. Bungaroo South was referred under the EPBC Act (EPBC2013/6867) and deemed not to be a Controlled Action, provided it is undertaken in the manner set out in the decision. The Cape Preston Export Facility was approved separately under the EP Act (MS949) and referred under the EPBC Act (EPBC2013/6844) and deemed not to be a Controlled Action, provided it is undertaken in the manner set out in the decision. The Bungaroo South mine has not commenced, and substantial commencement is required by July 2024. The Bungaroo South mine is not considered to be a component of the AIP, and therefore, it should not be considered as part of the Proposed Action being referred. Regardless of whether the AIP is progressed and developed, Bungaroo South can operate as a stand-alone action as the 176km haul road from the mine site to the proposed export Cape Preston East Iron Ore Export Facility has been previously approved for development.

MRL also holds tenure related to the Kumina iron ore deposit located about 50km from Bungaroo South and is completing separate feasibility, definition and environmental studies for development of this resource. This stand-alone project will be the subject of a separate referral under the EP Act and is introduced to provide context of stranded tonnes and potential opportunities the AIP presents for future development within the West Pilbara.

1.13 Describe any public consultation that has been, is being or will be undertaken, including with Indigenous stakeholders

MRL recognises the value of building positive relationships with key stakeholders and the communities in which we operate. MRL is engaging in early, open, honest and regular communication with the communities impacted by this proposed action and have considered their views in our decision-making with respect to key planning, operational and closure aspects.

A variety of stakeholders have been identified for the Proposed Action and are managed by the Community and Stakeholder Engagement team at MRL. Stakeholder groups include:

- Pastoral Lease Holders
- Native Title Groups and other Traditional Owners
- Other Mining Tenement Holders



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- Other Stakeholders (surface rights, utility, infrastructure)
- Statutory Authorities, Government, Business and Community Bodies
- Non-Government Organisations.

Stakeholders identified and consulted for the Proposed Action are outlined in a Stakeholder Consultation Register (Att17_Stakeholder).

MRL has undertaken pre-referral consultation, specifically for the AIP with the WA Department of Water and Environmental Regulation (DWER) Environmental Protection Authority (EPA) Services and Australian Department of Agriculture, Water and Environment (DAWE), Department of Mines, Industry Regulation and Safety (DMIRS) and Department of Jobs, Tourism, Science and Innovation (JTSI) regarding the required approvals for the AIP.

Further consultation with key stakeholders will be undertaken as part of the regular review of closure commitments associated with the AIP, to further develop possible closure strategies considered end of project life include that the haul road and port marine facilities. These strategies, could either be handed over to the relevant State or local government authority or decommissioned.

1.14 Describe any environmental impact assessments that have been or will be carried out under Commonwealth, State or Territory legislation including relevant impacts of the project

Over 30 baseline environmental surveys, studies and investigations have been conducted over the Proposed Action Area in the last two years and results have informed design of the AIP to avoid impacts where possible.

MRL engaged specialist environmental consultants to undertake EIAs on the terrestrial and marine components to support environmental approvals under s.38, Part IV of the EP Act, the EPBC Act and the Environment Protection (Sea Dumping) Act 1981 required for the Proposed Action. Key technical experts were also engaged to peer review surveys, modelling and investigations and EIA's to demonstrate compliance with guidance and confirm a transparent scientific approach has been applied to our EIAs.

Assessments are outlined in the supporting documentation; ELA 2021 (Att2_Terr SD Section 2 pg 10-14, Section 6 pg 64-93) and O2M 2021 (Att5_MFIA Section 6 pg 30-47 and Att6_MFD Section 6 pg 48-76) for impacts to the terrestrial and marine environments respectively.

1.15 Is this action part of a staged development (or a component of a larger project)?

Yes No

1.16 Is the proposed action related to other actions or proposals in the region?

Yes No

1.16.1 Identify the nature/scope and location of the related action (Including under the relevant legislation)

PPA the Proponent for the Ports shipping channel, MOF and access road is preparing a s45C application under the EP Act to amend MS1131, to cover the entire area of the Port Master Plan. APIMs WPIOP has the potential to utilise the AIP (pending third party agreements). APIM is progressing a s46 amendment under the EP Act to extend the WPIOPs substantial commencement date.

The AIP crosses Warrida Road, a MRWA public road. Therefore an overpass over Warrida Road is proposed to allow for the continuation of a multi-user public road with MRWA as the responsible authority. Given this, it is considered a separate project to the AIP. Any construction as part of this project would not be considered commencement of the AIP.

A Development Application has been submitted to facilitate construction at Lot 300 Back Beach Road, Onslow for a transient workers accommodation facility. MRL recently acquired the Onslow Camp Dunes project, 15km sth of Onslow along the Onslow Road.



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Section 2

Matters of national environmental significance

2.1 Is the proposed action likely to have any direct or indirect impact on the values of any World Heritage properties?

Yes No

2.2 Is the proposed action likely to have any direct or indirect impact on the values of any National Heritage places?

Yes No

2.3 Is the proposed action likely to have any direct or indirect impact on the ecological character of a Ramsar wetland?

Yes No

2.4 Is the proposed action likely to have any direct or indirect impact on the members of any listed species or any threatened ecological community, or their habitat?

Yes No

Species or threatened ecological community

Northern Quoll (*Dasyurus hallucatus*) Endangered

Impact

The Proposed Action may impact ecologically sensitive features through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts

- Loss of foraging and dispersal fauna habitat due to clearing along the haul road
- Fragmentation of fauna habitats, limiting fauna access and movement along the Haul Road
- Fauna mortality or injury

Potential indirect impacts

- Species disturbance associated with increased dust, noise, vibration or light
- Habitat degradation due to introduction or spread of weeds, increase in feral predators and altered fire regimes

The detailed assessment of the significance of these impacts can be found in Att2_Terr SD Section 6.1 pg 66-69 with a summary provided below.

No Northern Quolls were identified within the Haul Road DE however they were recorded 86 times within the Survey Area, within the Mesas and Breakaway habitats.

Based on these survey results, the Haul Road DE was redesigned to avoid Mesas and Breakaway habitat (representing denning and foraging habitat), with an average buffer of 50m (and a minimum of 2.5m in one location) being applied to the Haul Road DE. Water crossings (bridges/overpasses) will also be built over major rivers and creek lines, minimising the impact to the Drainage Line/River/Creek (major & minor) habitat, which functions as dispersal habitat for this species.

No fauna habitats are restricted to the Haul Road DE, and these habitats will remain in the local area. Based on the above, the Proposed Action is unlikely to adversely affect habitat critical to the species survival in a local context.

Breeding is likely to occur in the area due to a camera trap photographing an adult with a juvenile in the Mesas and Breakaway habitat (outside the Haul Road DE). The Haul Road DE has been specifically designed to avoid Mesas and Breakaway Habitat (representing Northern Quoll denning habitat) via the route selection process. An average buffer of 50m (and a minimum of 2.5m in one location) has been applied from these areas to the Haul Road DE. This means that even with flexibility regarding the final footprint, disturbance of the most important habitat has been avoided. Water crossings (bridges/overpasses) will also be installed over major rivers and creeks to minimise impacts to Drainage Lines/Rivers/Creeks (major) habitat.

Suitable foraging and dispersal habitat for Northern Quoll occur within the Haul Road DE however, Haul Road DE boundaries have been pro-actively rationalised to avoid Mesas and Breakaway habitat. Waterway crossing infrastructure will



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also be placed over major rivers and creeks that intersect the Haul Road DE to minimise impact to Drainage Line/River/Creek (major and minor) fauna habitat. Drainage Line/River/Creek (major and minor) habitat will remain in the local area.

The AIP is not expected to fragment an existing population into two or more populations given the species' mobile nature and the nature of the development (i.e. linear infrastructure). Northern Quoll is known to disperse over long distances and to be able to traverse roads to access suitable foraging habitats. Therefore, the haul road is unlikely to create a barrier to movement for the species.

Significant corridors along drainage and creek lines will remain in place to allow for movement through the landscape. The Haul Road DE supports habitats that satisfy the definitions of critical habitat foraging habitats. However, not all foraging and dispersal habitat may be critical habitats in a local context. The Haul Road DE has been set back with an average buffer of 50m (and a minimum of 2.5m in one location) from Mesa and Breakaway habitat to avoid direct and indirect impacts. All of the Mesas and Breakaway habitat recorded during the surveys will remain. Exclusion of all Mesas and Breakaway habitat from the Haul Road DE will ensure no disruption to the breeding cycle of the population.

Direct impacts to individuals (e.g., through vehicle strike) may occasionally occur (given the 20m buffer from Mesas and Breakaway habitat). The risk can be mitigated through speed limitations, driver education and good practice construction activities.

To minimise indirect impacts to fauna habitats from dust, vegetation clearing, grubbing and earthworks during high winds will be avoided where possible and dust suppression will be implemented during construction. The haul road will be sealed to minimise dust emissions during operation.

Night-time activities will be minimised to reduce impacts of noise and vibration on nocturnal foraging. Strict hygiene procedures will be implemented to prevent the spread or introduction of new weed species in the Haul Road DE. Recording of feral animal sightings during construction. If feral animal numbers increase (during construction), targeted control measures will be undertaken (including management of putrescible waste, removal of temporary water sources).

Species or threatened ecological community

Ghost Bat (*Macroderma gigas*) Vulnerable

Impact

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts:

- Loss of foraging and dispersal habitat due to clearing along the Haul Road
- Fragmentation of fauna habitats, limiting fauna access and movement along the Haul Road
- Fauna mortality or injury.

Potential indirect impacts:

- Species disturbance associated with increased dust, noise, vibration or light
- Habitat degradation due to introduction or spread of weed, increase in feral predators or contamination from spills.

The assessment of the significance of these impacts can be found in Att2_Terr SD, Section 6.2 page numbers 72 to 74 with a summary provided below.

No Ghost Bats, or Ghost Bat calls have been recorded within the Haul Road DE. All calls identified during the survey were in the Survey Area and were identified as foraging individuals (Att4_Fauna Section 5.1.4.2 pg 136). In addition, no potential diurnal or maternity roosts have been identified within the Haul Road DE or Survey Area. Suitable night roosts (shallow caves or overhangs) were observed in the Survey Area but not recorded within the Haul Road DE (Att4_Fauna Section 5.1.4.2 pg 136). No deeper, more complex caves were recorded that would be required for a day or maternity roosts (Att4_Fauna Section 5.1.4.2 pg 136). The Proposed Action has been designed to minimise impacts to roosting habitat as far as practicable through avoiding all Mesas and Breakaway habitat which represents habitat critical to the species' survival, as defined in the Significant Impact Guidelines (DoE 2013). Therefore, the Proposed Action will not directly impact any known roosts.

Drainage Line/River/Creek (minor and major) and Stony Hills and Slopes habitat within the Haul Road DE likely provide important foraging for the Ghost Bat (Att4_Fauna Section 5.1.4.2 pg 136). The Haul Road DE contains 2,376ha of foraging and dispersal Drainage Line/River/Creek (major and minor) habitat that satisfies the definition of critical habitat for Ghost Bat. Up to 268ha (11.3% of habitat available within Haul Road DE, 10% of that available in the greater Survey Area) of Drainage Line/River/Creek (major and minor) habitat will be cleared; however, approximately 2,684ha will remain in the greater Survey Area. In addition, this species is highly mobile and known to disperse up to 5km from known roosts for nocturnal foraging activities.

To minimise indirect impacts to fauna habitats from dust, vegetation clearing, grubbing and earthworks during high winds will be avoided where possible and dust suppression will be implemented during construction. The haul road will be sealed to minimise dust emissions during operation.

Night-time activities will be minimised to reduce impacts of noise and vibration on nocturnal foraging. Strict hygiene procedures will be implemented to prevent the spread or introduction of new weed species in the Haul Road DE. Recording of feral animal sightings (e.g. Cane Toads) during construction. If feral animal numbers increase (during construction), targeted



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control measures will be undertaken (including management of putrescible waste, removal of temporary water sources).

Species or threatened ecological community

Pilbara Leaf-nosed Bat (*Rhinonicteris aurantia*) Vulnerable

Impact

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts:

- Loss of foraging habitat due to clearing along the Haul Road
- Fragmentation of fauna habitats, limiting fauna access and movement along the Haul Road
- Fauna mortality or injury.

Potential indirect impacts:

- Species disturbance associated with increased dust, noise, vibration or light
- Habitat degradation due to introduction or spread of weed, increase in feral predators or contamination from spills.

The assessment of the significance of these impacts can be found in Att2_Terr SD, Section 6.3, page number 77 to 79 with a summary provided below.

No calls of Pilbara Leaf-nosed Bat have been identified from the Haul Road DE.

Deep caves with a suitable microclimate for roosting were not observed during field surveys and all Mesa and Breakaway habitats have been avoided during Proposed Action design, so diurnal or breeding roosts are unlikely to occur, and as such no roosting habitat is present within the Haul Road DE (Att4_Fauna, Section 5.1.4.6 pg 137 and 138). The nearest known roosts are over 11.5km away, and there are no deep caves suitable for diurnal or maternity roosts; therefore, the foraging habitat present is unlikely to support breeding.

Drainage Line/River/Creek (major and minor) habitat represents habitat critical to the survival of the species (foraging) given the occurrence of gullies (Priority 2 habitats) and major watercourses (Priority 4 habitats) within these habitat types. The Proposed Action will result in clearing up to 268ha of Priority 2 and 4 (Drainage Line/River/Creek) habitat, the habitat extends beyond the Haul Road DE, with 2,684ha (90%) of Drainage Line/River/Creek habitat remaining in the Survey Area.

All Haul Road DE habitats are widespread throughout the Pilbara, and extensive foraging habitat will remain within the species' predicted nocturnal foraging range. Only a low number of foraging individuals were recorded during recent surveys, all of which were located outside the Haul Road DE. In addition, the species is highly mobile and understood to travel greater than 10 km for foraging.

To minimise indirect impacts to fauna habitats from dust, vegetation clearing, grubbing and earthworks during high winds will be avoided where possible and dust suppression will be implemented during construction. The haul road will be sealed to minimise dust emissions during operation.

Night-time activities will be minimised to reduce impacts of noise and vibration on nocturnal foraging. Strict hygiene procedures will be implemented to prevent the spread or introduction of new weed species in the Haul Road DE. Recording of feral animal sightings (e.g. Cane Toads) during construction. If feral animal numbers increase (during construction), targeted control measures will be undertaken (including management of putrescible waste, removal of temporary water sources).

Species or threatened ecological community

Pilbara Olive Python (*Liasis olivaceus barroni*) Vulnerable

Impact

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts:

- Loss of shelter, foraging and dispersal habitat due to clearing along the Haul Road
- Fragmentation of fauna habitats, limiting fauna access and movement along the Haul Road
- Fauna mortality or injury.

Potential indirect impacts:

- Species disturbance associated with increased dust, noise, vibration or light
- Habitat degradation due to introduction or spread of weed, increase in feral predators or contamination from spills.

The assessment of the significance of these impacts can be found in Att2_Terr SD, Section 6.4 page number 82 to 84 with a summary provided below.

The Pilbara Olive Python has not been recorded within the Haul Road DE. The nearest record was 20km south of the Haul Road DE within a trough near a Drainage Line (Att4_Fauna, Section 5.1.5.1 pg 138).

Approximately 3,407ha of suitable habitat occurs within the Haul Road DE. This includes Drainage Line/River/Creek (major



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and minor) and Stony Hills and Slopes habitat, representing shelter, foraging, and dispersal habitat for the Pilbara Olive Python. All habitats in the Haul Road DE, including Drainage Line/River/Creek (major and minor) and Stony Hills and Slopes, extend beyond the Haul Road DE and remain in the local area.

The alignment of linear infrastructure will minimise impact to suitable Pilbara Olive Python habitat, up 268ha of Drainage Line/River/Creek (major and minor) habitat and 150ha Stony Hills and Slopes would be cleared within the Haul Road DE. At least 4,033 ha (90%) suitable foraging habitat will remain in the Survey Area. Water crossings will be constructed over major rivers and creeks to reduce the impacts on Drainage Line /River/Creek habitat, which may be used as a foraging and dispersal habitat for the Pilbara Olive Python.

Given the retention of up to 2,684ha Drainage Line /River/Creek and up to 1,350ha Stony Hills and Slopes habitat in the Survey Area and the avoidance of Mesas and Breakaway habitat, the local population is expected to continue to occupy the local region due to its mobile nature and is likely to move through the retained habitats within the Haul Road DE.

To minimise indirect impacts to fauna habitats from dust, vegetation clearing, grubbing and earthworks during high winds will be avoided where possible and dust suppression will be implemented during construction. The haul road will be sealed to minimise dust emissions during operation.

Night-time activities will be minimised to reduce impacts of noise and vibration on nocturnal foraging. Strict hygiene procedures will be implemented to prevent the spread or introduction of new weed species in the Haul Road DE. Recording of feral animal sightings (e.g cats and foxes) during construction. If feral animal numbers increase (during construction), targeted control measures will be undertaken (including management of putrescible waste, removal of temporary water sources).

Species or threatened ecological community

Grey Falcon (*Falco hypoleucus*) Vulnerable

Impact

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts:

- Loss of breeding, foraging and dispersal habitat due to clearing along the Haul Road
- Fragmentation of fauna habitats, limiting fauna access and movement along the Haul Road
- Fauna mortality or injury.

Potential indirect impacts:

- Species disturbance associated with increased dust, noise, vibration or light
- Habitat degradation due to introduction or spread of weed, increase in feral predators or contamination from spills.

The assessment of the significance of these impacts can be found in Att2_Terr SD, Section 6.5 page number 87 to 88 with a summary provided below.

No Grey Falcons have been recorded within the Haul Road DE. The nearest records are 4 km and 7km to the east of the Haul Road DE.

Approximately 2,376ha of suitable habitat occurs within the Haul Road DE. This includes Drainage Line/River/Creek (major and minor) habitat representing potential breeding/nesting habitat for the Grey Falcon. All habitats in the Haul Road DE, including Drainage Line/River/Creek (major and minor), extend beyond the Haul Road DE and remain in the local area. Up to 268ha of Drainage Line/River/Creek (major and minor) habitat would be cleared within the Haul Road DE. Approximately 2,684ha (91%) of Drainage Line/River/Creek (major and minor) habitat would remain in the Survey Area. Water crossings (bridges/overpasses) will occur over major Rivers and Creek in the Drainage Line/River/Creek (major) habitat to avoid impacts to this habitat (including fragmentation).

All the other fauna habitats provide foraging habitat for the species, and they all extend beyond the Haul Road DE and are widespread in the local area.

This species occurs at low densities compared to other grey raptors. However, given the retention of up to 2,684ha of Drainage Line /River/Creek habitat in the Survey Area and this habitat extends beyond the Haul Road DE, the local population is expected to continue to occupy the local region in addition to it being a highly mobile species, which can fly over large areas.

To minimise indirect impacts to fauna habitats from dust, vegetation clearing, grubbing and earthworks during high winds will be avoided where possible and dust suppression will be implemented during construction. The haul road will be sealed to minimise dust emissions during operation.

Night-time activities will be minimised to reduce impacts of noise and vibration on nocturnal foraging. Strict hygiene procedures will be implemented to prevent the spread or introduction of new weed species in the Haul Road DE. Recording of feral animal sightings (e.g cats) during construction. If feral animal numbers increase (during construction), targeted control measures will be undertaken (including management of putrescible waste, removal of temporary water sources).

Species or threatened ecological community

Northern Brushtail Possum (*Trichosurus vulpecula arnhemensis*) Vulnerable



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

Impact

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts:

- Loss of fauna habitat due to clearing along the Haul Road
- Fragmentation of fauna habitats, limiting fauna access and movement along the Haul Road
- Fauna mortality or injury.

Potential indirect impacts:

- Species disturbance associated with increased dust, noise, vibration or light
- Habitat degradation due to introduction or spread of weed, increase in feral predators or contamination from spills.

The assessment of the significance of these impacts can be found in Att2_Terr SD, Section 7.1 page 92 with a summary provided below.

The Northern Brushtail Possum has not been recorded in the Haul Road DE, with the nearest record 37 km south of the Haul Road DE in 2015 (Att4_Fauna, Section 5.1.4.5 pg 137). The current population is mainly in the Northern Territory, with limited sightings recorded in Western Australia.

Suitable habitat is present within the Drainage Line/River/Creek (major and minor) habitat in the Haul Road DE, however, there is no evidence that the Northern Brushtail Possum occupies this habitat (Att4_Fauna, Section 5.1.4.5 pg 137). This habitat extends beyond the Haul Road DE and is widespread in the local area. Given this, it is unlikely this species will depend on the Drainage Line/River/Creek (major and minor) habitat within the Haul Road DE for its survival.

Best practice environmental management measures will be implemented as part of the construction and operation of Haul Road. This will minimise the risk of harm to any Northern Brushtail Possum individuals that may intermittently use the Haul Road DE.

To minimise indirect impacts to fauna habitats from dust, vegetation clearing, grubbing and earthworks during high winds will be avoided where possible and dust suppression will be implemented during construction. The haul road will be sealed to minimise dust emissions during operation.

Night-time activities will be minimised to reduce impacts of noise and vibration on nocturnal foraging. Strict hygiene procedures will be implemented to prevent the spread or introduction of new weed species in the Haul Road DE. Recording of feral animal sightings (e.g. cats) during construction. If feral animal numbers increase (during construction), targeted control measures will be undertaken (including management of putrescible waste, removal of temporary water sources).

Species or threatened ecological community

Humpback whale (*Megaptera novaeangliae*) Vulnerable

Impact

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts:

- Injury from vessel strike
- Entanglement/ plastic ingestion from marine debris
- Hydrocarbon spill causing marine fauna injury or fatalities and/ or impact on critical habitat.

Potential indirect impacts:

- Underwater noise from piling and dredging operations
- Light pollution
- Temporary, localised turbidity increase from dredging
- Introduction of marine pest species from project vessels.

The detailed assessment of the significance of these impacts can be found in Att5_MFIA, Section 6.3 page 32 with a summary provided below.

A key AIP aim is to avoid sensitive ecological windows for marine fauna species. In the case this cannot be achieved, further management measures will be implemented. Construction activities are planned to be undertaken from March to September, the peak timing for humpback whale cow-calf occurrence being June to October.

Modelling of marine fauna impacts from noise generated by the dredging operation has been undertaken (Att15_NM, Sections 5 and 6 pg 10 to 24). The highest potential impact from underwater noise is for humpback whales during the peak of the southern migration when mother and calves rest in shallow environments. At high tide, sound may create temporary threshold shift (TTS) at 1,400 m for humpback whales during piling and behavioural effects 3,470 m during dredging and 15,000 m. Management measures will primarily focus piling and dredging during low tide as sound attenuates a lot faster than in deep water (Att15_NM, Section 6 pg 25).

Underwater noise models indicate that piling has the greatest potential for impact, especially during high tide when sound can travel the furthest. The low frequency marine mammal hearing group is the group with the greatest vulnerability to noise impacts.

Humpback whales with low frequency hearing and have been identified as a key species for the AIP impact assessment



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and management due to their high conservation status and high likelihood of occurrence at the site. Population IV humpback whales conduct a return migration from Antarctica to northern WA from late May to December.

August represents a shift in north to southward migrating whales. Cow-calf whale pairs become abundant from this time and predominantly rest in and travel through the protected nearshore waters (i.e., inshore of 50 m bathymetric contour). This is a sensitive life phase as they are prone to killer whale predation and females expend much energy on lactation. Where possible, underwater noise will be managed to reduce the potential for significant impact. Further mitigation will be adopted where avoidance cannot be achieved. The use of MFOs will facilitate the protection of other marine fauna (i.e., dolphins, dugongs, turtles and occasional pelagic visitors such as whale sharks and other whales) as well as humpback whales.

Dredge and piling barge vessels will operate on a 16-hour basis. Marine fauna may be impacted by vessel strike during the construction phase due to vessel movements, with the potential impact resulting in injury or fatality. The North-west bioregional plan identifies vessel strike as a potential concern for the humpback whales. Vessel speeds will be limited to nine knots in order to reduce the risk of vessel collision between marine megafauna and vessels occurs at speeds above 10 knots and more severe and lethal injuries were found to be caused by vessels travelling at speeds above 14 knots. Reduced speeds provide greater reaction time. This will be a precautionary measure, considering that the likelihood of a vessel strike during construction from proposed vessel movements is considered low due to the small scale (i.e., spatial movements) of the operation and piling (i.e., slow-moving and small support vessels).

The consequence of vessel strike on marine fauna may result in injury or mortality, although potential impacts from Proposal activities are unlikely to result in significant declines in the local or regional populations of species and their distribution, or reductions in the diversity of species.

Species or threatened ecological community

Australian Fairy Tern (*Sternula nereis nereis*) Vulnerable / Marine

Impact

The Fairy Tern has been observed within the Offshore DE (centred around Thevenard Island) and <50km from the Nearshore DE.

The Proposed Action may impact ecologically sensitive features, primarily through the works associated with establishing the Proposed Action infrastructure.

Seabirds and shorebirds are likely be vulnerable to indirect impacts (e.g., light pollution or hydrocarbon spill), rather than direct impacts. Potential indirect impacts on the Fairy Tern from the Proposed Action include:

- Entanglement/ plastic ingestion from marine debris
- Hydrocarbon spill causing marine fauna injury or fatalities and/ or impact on critical habitat.
- Light pollution
- Introduction of marine pest species from project vessels.

The assessment of the significance of these impacts can be found in Att5_MFIA, Section 6.3 page 32 and Att16_LM, Section 4.4 page number 28 and 29 with a summary provided below.

The Pilbara coast and islands, provide various habitats as important refuge for shorebirds and seabirds. However, none of these habitats are found within, much less restricted to, the DEs or transhipment navigational route.

Sources of marine debris as a result of Proposed Action activities may come from direct disposal into the marine environment or wind born litter from vessels or land infrastructure. The consequence of debris entering the marine environment may result in injury or mortality, through entanglement or plastic ingestion. Waste will be appropriately disposed of, stored and managed, to prevent marine debris from entering the marine environment and subsequently unlikely to result in declines in the local or regional populations of species and their distribution, or reductions in the diversity of species.

In the event of a Hydrocarbon spill, there is a risk of marine fauna being exposed to surface oil or ingesting small quantities. All construction vessels will be compliant with International Maritime Organisation International Convention for the Prevention of Pollution from ships (MARPOL), routine inspections conducted, secure storage and handling of fuel and low speed limited to minimise accidental vehicle collisions will be implemented. Overall, the risk of a hydrocarbon spill during construction is considered low and with the appropriate planning and mitigation measures in place in the event of a spill, the threat to marine fauna is considered very low.

Bright lighting can disorient flying birds and subsequently cause their death through collision with infrastructure or starvation due to disruptions in the ability to forage at sea (DSWEPaC, 2012a). Based on the outcomes of the Artificial Light Impact Assessment in regard to seabirds, all residual risk was low (Att16_LM, Section 4.4 pg 28 to 29). Lighting will be controlled and reduced during operation, directed inwards and at low vertical angles, vehicle lighting to be parked facing inland and a bird interaction procedure will be developed. Therefore, the presence of light is not expected to adversely impact this habitat. Nocturnal roost sites are not expected to be impacted by light.

Marine pests can be introduced during construction through ballast water discharge or dislodgment of biofouling. The dredge is considered the highest risk vector during the construction phase of the Proposed Action. With appropriate mitigation measures implemented consistent with the National System for the prevention and Management of Marine Pest Incursions, the Australian Ballast Water management requirements, the National biofouling management guidelines adopted, the risk that Proposal activities will result in the establishment of invasive marine pests. These measures include stringent measures



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around construction vessels and onboard equipment allowed within the Port, storage of hydrocarbons and low vehicle speeds within the construction zone. There the risk of marine pests effecting the biodiversity values and/or ecological integrity of the local environment is low.

Species or threatened ecological community

Flatback turtle (*Natator depressus*) Vulnerable / Migratory / Marine
Green turtle (*Chelonia mydas*) Vulnerable / Migratory / Marine
Hawksbill turtle (*Eretmochelys imbricata*) Vulnerable / Migratory / Marine

Impact

The Proposed Action may impact ecologically sensitive features, through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts

- Injury from vessel strike
- Entanglement/plastic ingestion from marine debris
- Loss of fauna habitat due to direct removal or disturbance of benthic habitat from dredging
- Hydrocarbon spill causing marine fauna injury or fatalities and/or impact on critical habitat

Potential indirect impacts

- Underwater noise from piling and dredging operations
- Light pollution
- Temporary localised turbidity increase from dredging
- Introduction of marine pest species from project vessels

The detailed assessment of the significance of these impacts can be found in Att5_MFIA Sect 6.3 pg 32 and Att16_LM Sect 4.3 pg 19-28 with a summary provided below.

A key AIP aim is to avoid sensitive ecological windows for marine fauna species. Construction activities are planned to be undertaken from March to September, outside of the main seasons for turtle nesting and inter-nesting (January to March and October to December). In the case this cannot be achieved further management measures will be implemented.

Noise generated by piling activities has the potential to disturb, flatback, green and hawksbill turtles causing temporary or even long-term avoidance of an area that may be important for feeding, reproduction or sheltering (DSEWPaC 2012). These impacts may affect critical behaviours and functions, such as feeding, migration, breeding and response to predators, all of which may ultimately affect an individual animal's survival. At high tide, sound may create TTS at 120m for marine turtles during piling. Management measures will primarily focus piling and dredging during low tide as sound attenuates a lot faster than in deep water (Att15_NM Sect 6 pg 25). Operational noise emissions from dredging are not expected to exceed TTS threshold levels for marine turtles.

Adverse effects of artificial light on marine turtle behaviour are well recognised by a substantial body of research. Artificial lighting can impact individuals at different stages of the life cycle, including nesting adult females and hatchlings and critical nesting habitat for nesting and inter-nesting overlaps with the Proposed Action area.

Light modelling has been undertaken to inform the development of mitigation for the key marine species at risk included marine turtles. Based on the outcomes of the impact assessment, light pollution was assessed as a high-risk threat to the flatback turtle, green turtle and hawksbill turtle (Att16_LM Sect 4 pg 19-27). Lighting design has been managed in line with the National Light Pollution Guidelines (DoEE 2020), Environmental Assessment Guideline: Marine Fauna (EPA 2016) and the EPA Environmental Assessment Guideline No 5 Protecting Marine Turtles from Light Impacts (EPA 2010).

Based on the outcomes of the ALIA, onshore hatchling marine turtles were most at risk of negative impact from Proposed Action lighting, with little to no impact on nesting adult turtles (Att16_LM Sect 4 pg 19-27). Management measures to reduce potential impacts of artificial light will prevent adverse effects to nesting island habitat critical for the survival of flatback, hawksbill and green turtle species (DoEE 2017).

Considering the information provided in the ALIA (Att16_LM Sect 5 and 6 pg 33-39) and the implementation of control measures, significant impacts to marine turtles are not expected. In the event operations (post-construction) monitoring identified an impact additional engineering and/or operational solutions should be implemented where practicable to control the problem light(s) as detailed in the ALIA and Management Plan (Att16_LM Sect 5 and 6 pg 33-39).

Dredge and piling barge vessels will operate on a 16-hr basis. Marine turtles may be impacted by vessel strike during the construction phase due to vessel movements, with the potential impact resulting in injury or fatality.

Vessel speeds will be limited to nine knots in order to reduce the risk of vessel strike. A found significant increase in the risk of vessel collision between marine megafauna and vessels occurs at speeds above 10kts and more severe and lethal injuries were found to be caused by vessels travelling at speeds above 14kts. Reduced speeds provide greater reaction time. This will be a precautionary measure, considering that the likelihood of a vessel strike during construction from proposed vessel movements is considered low due to the small scale (i.e., spatial movements) of the operation and piling (slow-moving and small support vessels).

The consequence of vessel strike on turtles may result in injury or mortality, although potential impacts from Proposal activities are unlikely to result in significant declines in the local or regional populations of species and their distribution, or



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reductions in the diversity of species.

Species or threatened ecological community

Green sawfish (*Pristis zijsron*) Vulnerable

Impact

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts:

- Entanglement/ plastic ingestion from marine debris
- Hydrocarbon spill causing marine fauna injury or fatalities and/ or impact on critical habitat.

Potential indirect impacts:

- Underwater noise from piling and dredging operations.

The detailed assessment of the significance of these impacts can be found in Att5_MFIA, Section 6.3 page 32 with a summary provided below.

A key AIP aim is to avoid sensitive ecological windows for marine fauna species. Construction activities are planned to be undertaken from March to September, outside of sawfish pupping season (October to November). However, in the case this cannot be achieved, further management measures will be implemented.

Noise generated by piling activities has the potential to disturb, sawfish causing temporary or even long-term avoidance of an area that may be important for feeding, reproduction or sheltering (DSEWPaC 2012). These impacts may affect critical behaviours and functions, such as feeding, migration, breeding and response to predators, all of which may ultimately affect an individual animal's survival. At high tide, sound may create TTS at 120 m for sawfish during piling. Management measures will primarily focus piling and dredging during low tide as sound attenuates a lot faster than in deep water (Att15_NM, Section 6 pg 25). Operational noise emissions from dredging are not expected to exceed TTS threshold levels for sawfish.

2.4.2 Do you consider this impact to be significant?

Yes No

2.5 Is the proposed action likely to have any direct or indirect impact on the members of any listed migratory species or their habitat?

Yes No

Migratory species

Common Sandpiper (*Actitis hypoleucus*) Marine / Migratory
Common Greenshank (*Tringa nebularia*) Marine / Migratory
Oriental Pratincole (*Glareola maldivarum*) Marine / Migratory
Pectoral Sandpiper (*Calidris melanotos*) Marine / Migratory
Wood Sandpiper (*Tringa glareola*) Marine / Migratory
Oriental Plover (*Charadrius veredus*) Marine / Migratory
Lesser Sand Plover (*Charadrius mongolus*) Endangered / Marine / Migratory
Greater Sand Plover (*Charadrius leschenaultia*) Vulnerable / Marine / Migratory
Grey Plover (*Pluvialis squatarola*) Marine / Migratory
White-winged Black Tern (*Chlidonias leucopterus*) Marine / Migratory
Caspian Tern (*Hydroprogne caspia*) Marine / Migratory
Crested Tern (*Thalasseus bergii*) Marine / Migratory
Little Tern (*Sternula albifrons*) Marine / Migratory
Roseate Tern (*Sterna dougallii*) Marine / Migratory
Common Tern (*Sterna hirundo*) Marine / Migratory
Ruddy Turnstone (*Arenaria interpres*) Marine / Migratory

Impact

Sixteen shorebirds/wetlands birds listed as Migratory under the EPBC Act are highly likely to occur within the Haul Road DE, Landside DE, Nearshore DE and Offshore DE.

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts

- Loss of potential foraging habitat due to clearing.
- Entanglement/ plastic ingestion from marine debris, and



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- Hydrocarbon spill causing injury or fatalities and/ or impact on critical habitat.

Potential indirect impacts

- Underwater noise from piling and dredging operations.
- Light pollution; and
- Introduction of marine pest species from project vessels.

The assessment of the significance of these impacts can be found in Att2_TerrSD, Section 6.6 page 91 and Att16_LM Section 4.4.2 page number 30 to 32 with a summary provided below.

Most of these species were not recorded during the latest fauna survey and have been recorded in small numbers near the Haul Road DE (at the western end) in previous years.

Suitable foraging habitat is available in Tidal Flats and Claypan habitat types within the Haul Road DE, near Onslow Road. A maximum of 70ha of these habitat types will be cleared for the Proposed Action within the Haul Road DE. Both habitat types extend beyond the Haul Road DE, with approximately 1,688ha (4%) of suitable habitat remaining in the Survey Area. Even with project flexibility, these habitats are widespread and extensive areas would remain available in the Survey Area and local area.

Whilst these Migratory waders/shorebirds may occasionally utilise these habitats when inundated, they are highly mobile and are unlikely to rely specifically on these habitats. The Migratory species are non-breeding visitors to Western Australia.

Based on observations during the May 2021 field survey and previous surveys (Att4_Fauna, Section 5.1.3.5 pg 134 and 135, Bancroft and Bamford 2018), the local population of most migratory species is expected to be less than 0.1% of the flyway population of single shorebird species, less than 2,000 species and less than 15 different species. However, it is still considered possible for the Proposed Action DEs to potentially provide important habitat for some migratory species. Nonetheless, it is unlikely that any of migratory birds will depend solely on the Haul Road DE habitats for their survival (Att4_Fauna, Section 5.1.3.5 pg 134 and 135).

The Tidal Flats and Claypan habitat have already been extensively disturbed, with most of this habitat in good to poor condition. Several weed species are already present in this area (Att4_Fauna, Section 5.1.2 pg 132, Att3_FV, Section 4.2.4 pg 60). Nevertheless, strict hygiene procedures will be implemented to prevent the spread or introduction of new weed species in the Haul Road DE. Feral fauna management will also be undertaken during the construction.

Migratory species

- Fork-tailed Swift (*Apus pacificus*) Marine / Migratory
- Barn Swallow (*Hirundo rustica*) Marine / Migratory
- Sanderling (*Calidris alba*) Marine / Migratory
- Sharp-tailed Sandpiper (*Calidris acuminata*) Marine / Migratory
- Curlew Sandpiper (*Calidris ferruginea*) Critically Endangered / Marine / Migratory
- Red-necked Stint (*Calidris ruficollis*) Marine / Migratory
- Bar-Tailed Godwit (*Limosa lapponica*) Marine / Migratory
- Black-tailed Godwit (*Limosa limosa*) Marine / Migratory
- Eastern Curlew (*Numenius madagascariensis*) Critically Endangered / Marine / Migratory
- Grey-tailed Tattler (*Tringa brevipes*) Marine / Migratory
- Whimbrel (*Numenius phaeopus*) Marine / Migratory
- Little Curlew (*Numenius minutus*) Marine / Migratory
- Glossy Ibis (*Plegadis falcinellus*) Marine / Migratory

Impact

A further 13 migratory species have a medium likelihood of occurrence within the Haul Road DE.

The Proposed Action may impact ecologically sensitive features, primarily through vegetation clearance and works associated with establishing the Proposed Action infrastructure.

Potential direct impacts (Att5_MFIA, Section 6.2 pg 32, Att16_LM, Section 3 pg 17):

- Entanglement/ plastic ingestion from marine debris
- Hydrocarbon spill causing marine fauna injury or fatalities and/ or impact on critical habitat.

Potential indirect impacts:

- Light pollution
- Introduction of marine pest species from project vessels.

The assessment of the significance of these impacts can be found in Att2_Terr SD, Section 7 page 92 to 93, Att5_MFIA, Section 6.3 pg 32 and Att16_LM Section 4.4.2 pg 30 to 32 with a summary provided below.

Species with a medium likelihood of occurring are likely only to occur occasionally, are not solely reliant on any of the habitats present within the Haul Road DE or are not known from the nearby area. These species may occasionally use the habitats that become seasonally inundated, especially in Tidal Flats and Claypan habitat within the Survey Area but would only occur on an occasional or transitional basis within the Haul Road DE (Att4_Fauna, Section 5.1.3.5 pg 134 and 135).

The Tidal Flats and Claypan habitat have already been extensively disturbed, with most of this habitat in good to poor condition. Several weed species are already present in this area (Att4_Fauna, Section 5.1.2 pg 132, Att3_FV, Section 4.2.4



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pg 60). Nevertheless, strict hygiene procedures will be implemented to prevent the spread or introduction of new weed species in the Haul Road DE. Feral fauna management will also be undertaken during the construction.

Based on observations during the May 2021 field survey and previous surveys (Att4_Fauna, Section 5.1.3.5 pg 134 and 135, Bancroft and Bamford 2018), the local population of most migratory species is expected to be less than 0.1% of the flyway population of single shorebird species, less than 2,000 species and less than 15 different species. However, it is still considered possible for the Proposed Action DEs to potentially provide important habitat for some migratory species. Nonetheless, it is unlikely that any of migratory birds will depend solely on the Haul Road DE habitats for their survival (Att4_Fauna, Section 5.1.3.5 pg 134 and 135).

Similarly, the Fork-tailed Swift and Barn Swallow are aerial foragers that would be unlikely to solely depend on any of the habitats available within the Haul Road DE, although they could occasionally fly over.

Furthermore, a maximum of 69ha of habitat suitable for these species will be cleared for the Proposed Action. This habitat extends beyond the Haul Road DE, with approximately 1,687ha of suitable habitat remaining in the Survey Area.

Migratory species

Humpback whale (*Megaptera novaeangliae*) Vulnerable / Cetacean / Migratory

Dugong (Dugong dugon) Migratory / Marine

Australian humpback dolphin (*Sousa sahulensis*) Migratory / Cetacean / Marine

Indo-Pacific bottlenose dolphin (*Tursiops aduncus*) Migratory / Cetacean / Marine

Flatback turtle (*Natator depressus*) Vulnerable / Migratory / Marine

Green turtle (*Chelonia mydas*) Vulnerable / Migratory / Marine

Hawksbill turtle (*Eretmochelys imbricata*) Vulnerable / Migratory / Marine

Green sawfish (*Pristis zijsron*) Vulnerable / Migratory

Impact

Potential direct impacts:

- Injury from vessel strike
- Entanglement/ plastic ingestion from marine debris
- Loss of marine fauna habitat due to direct removal or disturbance of benthic habitat from dredging; and
- Hydrocarbon spill causing marine fauna injury or fatalities and/ or impact on critical habitat.

Potential indirect impacts:

- Underwater noise from piling and dredging operations
- Light pollution
- Temporary, localised turbidity increase from dredging; and
- Introduction of marine pest species from project vessels.

The detailed assessment of the significance of these impacts can be found in Att5_MFIA, Section 6 pg 32 and Att15_UNM, Sections 5 and 6, pg no 10 to 24 with a summary provided below.

A key AIP aim is to avoid sensitive ecological windows for marine fauna species. In case this cannot be achieved, further management measures will be implemented. Construction activities will be planned to be undertaken from March to September, outside of the main seasons for ecological windows for turtle nesting and inter-nesting (January to March and October to December), and sawfish pupping (October to November) and the peak timing for humpback whale cow-calf occurrence (June to October)

Modelling of marine fauna impacts from noise generated by the dredging operation has been undertaken (Att15_UNM, Sections 5 and 6 pg 10 to 24). At high tide, sound may create TTS at 1,400m for humpback whales during piling and behavioural effects 3,470m during dredging and 15,000m, and 120 m for sawfish and marine turtles during piling.

Management measures will primarily focus piling and dredging during low tide as sound attenuates a lot faster than in deep water (Att15_UNM, Section 6 pg 25) Operational noise emissions from dredging are not expected to exceed TTS threshold levels for marine turtles or sawfish.

The highest potential impact from underwater noise is for humpback whales during the peak of the southern migration when mother and calves rest in shallow environments. Where possible, underwater noise will be managed to reduce the potential for significant impact. Further mitigation will be adopted where avoidance cannot be achieved. The use of Marine Fauna Observers (MFOs) will facilitate the protection of other marine fauna (i.e., dolphins, dugongs, turtles and occasional pelagic visitors such as whale sharks and other whales) as well as humpback whales.

Light modelling has been undertaken to inform the development of mitigation for the key marine species at risk included marine turtles. Based on the outcomes of the impact assessment, light pollution was assessed as a high-risk threat to the flatback turtle, green turtle and hawksbill turtle (Att16_LM, Section 4 pg 19 to 27). Lighting design has been managed in line with the National Light Pollution Guidelines (DoEE 2020), the WA EPA Environmental Assessment Guideline: Marine Fauna (EPA 2016) and the WA EPA Environmental Assessment Guideline No. 5 Protecting Marine Turtles from Light Impacts (EPA 2010).

Based on the outcomes of the ALIA, onshore hatchling marine turtles were most at risk of negative impact from Proposed Action lighting, with little to no impact on nesting adult turtles (Att16_LM, Section 4 pg 19 to 27). Management measures to



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reduce potential impacts of artificial light will prevent adverse effects to nesting island habitat critical for the survival of flatback, hawksbill and green turtle species (DoEE 2017).

Considering the information provided in the ALIA (Att16_LM, Section 5 and 6 pgs 33 to 39), and the implementation of control measures, significant impacts to marine turtles are not expected. In the event operations (post-construction) monitoring identified an impact additional engineering and/or operational solutions should be implemented where practicable to control the problem light(s) as detailed in the ALIA and Management Plan (Att16_LM, Section 5 and 6 pgs 33 to 39).

Dredge and piling barge vessels will operate on a 16-hour basis. Marine fauna may be impacted by vessel strike during the construction phase due to vessel movements, with the potential impact resulting in injury or fatality. Vessel speeds will be limited to nine knots in order to reduce the risk vessel strike. This will be a precautionary measure, considering that the likelihood of a vessel strike during construction from proposed vessel movements is considered low due to the small scale (i.e., spatial movements) of the operation and piling (i.e., slow-moving and small support vessels).

The consequence of vessel strike on marine fauna may result in injury or mortality, although potential impacts from Proposal activities are unlikely to result in significant declines in the local or regional populations of species and their distribution, or reductions in the diversity of species.

2.5.2 Do you consider this impact to be significant?

Yes No

2.6 Is the proposed action to be undertaken in a marine environment (outside Commonwealth marine areas)?

Yes No

2.7 Is the proposed action likely to be taken on or near Commonwealth land?

Yes No

2.8 Is the proposed action taking place in the Great Barrier Reef Marine Park?

Yes No

2.9 Is the proposed action likely to have any direct or indirect impact on a water resource from coal seam gas or large coal mining development?

Yes No

2.10 Is the proposed action a nuclear action?

Yes No

2.11 Is the proposed action to be taken by a Commonwealth agency?

Yes No

2.12 Is the proposed action to be undertaken in a Commonwealth Heritage place overseas?

Yes No

2.13 Is the proposed action likely to have any direct or indirect impact on any part of the environment in the Commonwealth marine area?

Yes No



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Section 3

Description of the project area

3.1 Describe the flora and fauna relevant to the project area

Ecological surveys have been undertaken across all AIP DEs with full descriptions of flora and fauna provided in the attached supplementary reports Att2_TerrSD Sect 2.1 pg 10 to 14, Att3_FV Sect 4.2.3 pg 50, Att4_Fauna Sect 3.1.1 pg 19 to 20 , Att5_MFIA Sect 4 pg 18 to 23, Att6_MFD Sect 4.1 pg 18, Att7_BCH Sect 2.4 pg 15 to 28, Att14_IMP Sect 4 pg 10 to 18; and Att16_LM Sect 2 pg 4 to 13. The Haul Road and Landside DE's exist within a terrestrial environment, and the Offshore and Nearshore DE's with a marine environment. As such, discussion of the Proposed Action on flora and fauna values are discussed according to environment type in this section.

Terrestrial Environment (Haul Road and Landside DE)

No threatened flora species listed under the EPBC Act have been recorded within the Haul Road or Landside DE (Att2_TerrSD Sect 2.3.1 pg 27 Att3_FV Sect 4.2.8 pg 62, Biota 2010). The Protected Matters Search Tool identified no MNES listed flora as potentially occurring within the DEs. Six State-listed Priority flora species have been recorded within the DEs (Att3_FV Sect 4.2.3.1 pg 50).

Five threatened fauna species listed as MNES under the EPBC Act have been recorded or considered highly likely to occur in and around the Haul Road DE including:

- Northern Quoll (*Dasyurus hallucatus*)
- Ghost Bat (*Macroderma Gigas*)
- Pilbara Leaf-nosed Bat (*Rhinonicteris aurantia*)
- Pilbara Olive Python (*Liasis olivaceus barroni*)
- Grey Falcon (*Falco hypoleucus*).

Ten fauna habitats occur within the Haul Road & Landside DEs, with habitat conditions varied throughout. The most prolific disturbance is cattle grazing and trampling (Att2_TerrSD Sect 2.3.2 pg 28):

No habitats are restricted to the Haul Road & Landside DE with all common in the surrounding area. These fauna habitat types provide seasonal habitats (when inundated after rainfall) for Migratory MNES shore/waterbirds species.

16 shorebirds/wetland migratory listed as Migratory under the are considered highly likely to occur within coastal habitats of Landside, Offshore and Nearshore DEs due to proximity to the coast. These species are considered less likely to occur within the Haul Road DE, however, may occasionally use the habitats that become seasonally inundated, especially in Tidal Flats and Claypan habitat but would only occur on an occasional or transitional basis (Att2_Terr SD, Section 7.2 pg 92 to 93). A further 13 migratory species have a medium likelihood of occurrence. Species with a medium likelihood of occurring are likely only to occur occasionally, are not solely reliant on any of the habitats present or are not known from the nearby area.

Further detail of the terrestrial flora and fauna relevant to the Proposed Action is included in Att2_TerrSD, Section 2 pg 10 to 44.

Marine Environment (Offshore and Nearshore DE)

O2 Marine undertook benthic communities and habitat (BHC) survey identifying five key classes occurring within the wider AIP area: coral, sand with sparse filter feeders, bare substrate, limestone pavement with sand veneer, sparse coral, filter feeders and macroalgae, and low profile reef with coral and filter feeders (Att5_MFIA, Section 4.3.1 pg 19 to 20). Of this five, only three occur within the Nearshore DE and two of these three within the Offshore DE (Att5_MFIA, Section 4.3.1 pg 19 to 20).

The Nearshore DE is located in turbid waters, with turbidity increasing during periods of spring tides and following high rainfall events. Patchy and ephemeral seagrass communities, low cover macroalgae, bare sand with sparse filter feeders and limestone pavement (Att11_WQ, Section 4 pg G to K) are present throughout the area. The Nearshore DE is characterised by bare substrate with occasional areas of limestone pavement. No seagrass was identified in the inshore survey area. The Offshore DE is characterised by a low-profile reef system between 20-30m depth range, with primarily bare substrate occurring beyond (deeper) within this zone. Although well represented in the Pilbara, low-profile reef BCH is recognised as providing important habitat for a wide variety of reef and demersal fish species.

Seven key marine species, defined as those of a high conservation status and high likelihood of occurrence were recorded for the marine DEs including:

- Humpback whale (*Megaptera novaeangliae*)
- Dugong (*Dugong dugon*)
- Australian humpback dolphin (*Sousa sahalensis*)
- Indo-Pacific bottlenose dolphin (*Tursiops aduncus*)
- Green turtle (*Chelonia mydas*)
- Flatback turtle (*Natator depressus*)
- Hawksbill turtle (*Eretmochelys imbricata*)
- Green sawfish (*Pristis zijsron*).

Further detail of marine flora and fauna relevant to the Proposed Action is included in Att5_MFIA, Section 6 pg 24 to 25.

All environmental investigation and surveys relevant to this referral have been included as attachments in Section 3.1.1 and Section 3.2.1 as this is where the information is mostly relevant.

3.2 Describe the hydrology relevant to the project area (including water flows)



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

Haul Road DE

A number of hydrological studies have been completed for the Proposal. The Haul Road DE is located within the Pilbara Surface Water Area, a Surface Water Proclaimed Area under the WA RIWI Act.

Over its approximate 150km extent, the Haul Road DE traverses four regional catchments and intersects 20 watercourses, three permanent water sources with occasional significant flow. Watercourses within the Haul Road DE are typical of those in the Pilbara being ephemeral in nature and flow as a result of upstream rainfall events. The three significant watercourses are:

- Cane River
- Peedamulla Creek
- Red Hill Creek.

The Warramboo Creek may also carry significant flows on occasion, but the watercourse is braided within the Haul Road DE and instead is made up of two to three smaller channels.

One streamflow gauge has been installed on the Cane River (Tooluna, Station No: 707005), approximately 28km upstream from where it is crossed by the Haul Road DE and has been operational since 1986. The flow record shows a predominantly dry regime with peak flood depths of up to 4m, however, typically flood levels range between 0 – 2.5m. No monitored flow data is available for Peedamulla or Red Hill Creek.

Extensive ecological surveys found no instances of permanent or semi-permanent pools within the Haul Road DE.

There has been no surface water quality monitoring completed within the Haul Road DE, nor is data publicly available for the Cane River or Red Hill Creek. Due to rainfall sources in these ephemeral channels, water quality is assumed to be normal to slightly acidic consistent with rainfall

The Haul Road DE is located entirely within the Pilbara groundwater area, which is proclaimed under the RIWI Act. Along the Haul Road DE, groundwater resources are mainly alluvial, sedimentary or fractured rock aquifers. The aquifers that are being targeted to provide water for haul road construction are:

- The Birdrong Aquifer (Carnarvon Basin), the top of which is around 400m deep at the coast, 200m deep in the centre and becomes shallower towards the eastern basin margin where it outcrops. Towards the coast, artesian conditions may exist as well as higher salinity.
- Fractured rock aquifers and paleochannels of the Ashburton Basin, particularly areas along mapped faults, interpreted lineaments features, and adjacent to alluvium beds along drainage lines. These aquifers are typically compartmentalised and with limited storage.

The dominant regional land uses along the haul road alignments are currently mining and cattle grazing. Existing pastoral, mining and drinking water supply groundwater bores occur along the proposed haul road. Production bores within Priority 1 Drinking Water Supply areas under the Country Areas Water Supply Act 1947, such as the Cane River Water Reserve, have a 500m wellhead protection zone established, to protect the source of water used for abstraction and potable supply. Pastoral bores have a 400m wellhead exclusion zone established under the Mining Act.

Landside DE

The Landside DE is located largely within the controlled drainage network of the ANSIA. Apart from along the access road, the Landside DE has been previously filled and protected to provide a stable, dry development area. Site drainage is controlled in accordance with the District Water Management Strategy (ENV Australia 2010) that has been approved by DWER (Taylor Burrell Burnett 2019), with strong emphases placed on ensuring chemical spills do not escape into the natural environment and that Best Management Practices (BMPs) are utilised (ARUP 2015).

The hydrogeology and groundwater of the Landside DE have been described previously as part of the proposed development of the Wheatstone Project and the ANSIA generally:

- ANSIA District Water Management Strategy (ENV Australia 2010).
- Wheatstone Project Groundwater Studies (URS 2010).

The studies indicate that the site is underlain by a shallow (~1m) groundwater table that is strongly influenced by the nearby seawater. The groundwater is not suitable for potable or industrial use, being brackish to hypersaline, near-neutral to slightly alkaline, and with comparatively high dissolved metal concentrations; some which exceed the ANZG 2018 Guidelines for Fresh and Marine Water Quality.

3.3 Describe the soil and vegetation characteristics relevant to the project area

Terrestrial – Haul Road DE

Soils

The soils near the Port to the west of the Proposed Action are tidal soils found on the coastal flats, while coastal dunes have deep calcareous sands and red deep sands.

Further inland, deep red sands dominate the sandplains and dunes. Red/Brown non-cracking clays and deep sandy duplexes are found on the alluvial plains and floodplains along with Red loamy earths.

Vegetation

The DE is situated within the Carnarvon and Pilbara bioregion, within Cape Range, Hamersley and Roebourne subregions. The Haul Road DE consists of 47 terrestrial vegetation types (excluding cleared vegetation) associated with five broad landforms; dunes and swales, claypans and tidal flats, plains, hills and mesas, and drainage lines. The vegetation condition ranged from Excellent to Completed Degraded, with the majority in Very Good to Good condition (Att2_TerrSD, Section 2.3.1 pg 27, Att3_FV Section 4.2.8 pg 62).



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No Environmentally Sensitive Areas or EPBC listed Threatened Ecological Communities (TECs) are present within the DE. One State-listed Priority Ecological Community (PEC) – Tanpool Land System (Priority 1), has been recorded approximately 143m from the Haul Road DE. The Haul Road has been specifically designed to avoid this PEC and it will not be impacted by the Proposed Action.

The Haul Road Development Envelope contains areas of potential groundwater-dependent vegetation associated with drainage lines.

The Haul Road DE is located within the Carnarvon and Pilbara bioregions, within the Cape Range, Hamersley and Roebourne subregions. The vegetation of the subregions is described as:

- Cape Range – A mosaic of saline alluvial plains with samphire and saltbush low bushlands, Bowgada low woodland on sandy ridges and plains. Snailewood scrub on clay flats and tree to shrub-steppe over hummock grasslands on red dunes (Kendrick and Mau 2002).
- Hamersley – Mulga low woodland over bunch grasses on fine-textured soils in valley floors, and Eucalyptus leucophloia over Triodia brizoides on skeletal soils of the ranges (Kendrick 2001).
- Roebourne - Quaternary alluvial and older colluvial coastal and subcoastal plains with a grass savannah of hummock grasses and dwarf shrub-steppe of Acacia stellaticeps or A. pyrifolia and A. inaequilatera. Triodia hummock grasslands dominate uplands. Ephemeral drainage lines support Eucalyptus victrix or Corymbia hamersleyana woodlands. Samphire, Sporobolus and mangal occur on marine alluvial flats and river deltas (Kendrick and Stanley 2001).

A total of 18 weeds species have been recorded in the wider Survey Area. Two weeds species, Parkinsonia aculeata and Prosopis pallida (Mesquite), which have been recorded within the Haul Road DE are listed as Declared Pests under the State Biodiversity and Agriculture Management Act 2007 (BAM Act) and as Weeds of National Significance (WoNS).

A full description is provided in the attached supplementary report Att2_Terr SD, Section 2, Page 27 to 44.

Landside DE

Soils

The landforms and soils within the Landside DE have been described previously as part of the proposed development of the Wheatstone Project and the ANSIA generally:

- Wheatstone Project Baseline Soil Quality and Landforms Assessment (URS 2011).
- ANSIA Preliminary Acid Sulphate Soil Report (ENV Australia 2012).

These studies show that the Landside DE consists entirely of coastal dunes made up of calcareous sands and rock, with no known occurrences of Acid Sulfate Soils (ASS).

Vegetation

The Landside DE is located within the Cape Range subregion of the Carnarvon bioregion. Three broad vegetation systems associations were mapped within the Landside DE (Att2_TerrSD, Section 2.4.1 pg 43, Biota 2010).

No Commonwealth listed threatened flora species or threatened ecological communities (TEC) have been recorded within the Landside DE. Nor are any considered likely to or have the potential to occur within the DE or wider Survey Area (Att2_TerrSD, Section 2.4.1 pg 43, Biota 2010).

Marine Sediment – Nearshore and Offshore DEs

A full description is provided in the attached supplementary reports: Att5_MFIA, Section 4 pg 18, Att6_MFD Section 4.1 pg 18; Att7_BCH Section 2.4 pg 15 to 28; Att9_GS Section 5 pg 12 to 20; Att10_CP Section 2, Att12_DBPM Section 2 pg 13, and Att13_DPM Section 2 pg 3.

Marine Benthic Communities and Habitats – Nearshore and Offshore DEs

A full description of benthic communities and habitats and marine fauna is provided in the attached supplementary reports: Att5_MFIA, Section 4.3.1 pg 19 to 20; Att6_MFD Section 4.1 pg 18; Att7_BCH Section 2.4 pg 15 to 28; Att14_IMP Section 4 pg 10 to 18; and Att16_LM Section 2 pg 4 to 13.

3.4 Describe any outstanding natural features and/or any other important or unique values relevant to the project area

Haul Road DE

No outstanding natural features or other important or unique values are recorded within the Haul Road DE. The Rocky Hills/Mesa fauna habitat is important in the surrounding area; however, MRL have avoided this habitat type.

Cane River Conservation Park occurs to the south of Haul Road DE. A minimum buffer of 100m has been applied from the boundary of this conservation park and the Haul Road DE to minimise any indirect impacts (Att1_Figs, Fig_4_DE_Reduction_East).

The Lower Cane River is located to south west of the Haul Road DE, has high cultural heritage significance due to the proximity of the Ceremonial Law Ground and nearby heritage sites.

Landside, Nearshore and Offshore DEs

The Proposed Action is situated within the ANSIA. The area spatially overlaps with a Biologically Important Area for a number of species including migrating whales, inter-nesting sea turtles and breeding seabirds. Island Nature Reserves situated approx. 10-14km from the Offshore DE, within the 20m bathymetric contour provide important habitat for turtles and seabirds. The broad area, from Ningaloo Reef to Montebello Islands has been identified as an Important Marine Mammal Area (IMMA) by the International Union for the Conservation of Nature (IUCN) due to the occurrence of dugongs, inshore dolphins and humpback whales in addition to occasional visits by pelagic cetacean species. Further detail is provided in the attached supplementary report (Att5_MFIA, Section 4.4, page number 20 to 23).



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3.5 Describe the status of native vegetation relevant to the project area

Terrestrial Vegetation

The vegetation condition ranged from Excellent to Completely Degraded, with the majority in the Haul Road DE being in Very Good to Good condition (Att3_FV, Section 2.3.1 pg 27, Biota 2010). It is anticipated that all vegetation will be cleared within the Landside DE, as PPA are progressing clearing and elevated ready for construction.

Marine Benthic Communities and Habitat

The Nearshore DE is characterised by bare substrate with occasional areas of limestone pavement. No seagrass was identified in the inshore survey area either from literature review or field survey.

The Offshore DE and surrounding survey areas are characterised by a low-profile reef system between 20-30m depth range, with primarily bare substrate occurring beyond (i.e., deeper) within this zone. Well represented in the Pilbara region, this low-profile reef BCH is recognised as providing important habitat for a wide variety of reef and demersal fish species. A full description is provided in the attached supplementary report (Att7_BCH, Section 2.4 pg 15 to 28).

3.6 Describe the gradient (or depth range if action is to be taken in a marine area) relevant to the project area

The Proposed Action is located in relatively flat and shallow waters of the western Pilbara. The Port Nearshore DE is situated in water depths up to eight metres. The Port Offshore DE incorporates the navigation route that traverses water depths of eight to 40m. There is a slight gradient from the coast to the 20m contour, where there is a steeper slope from 20 to 50m. Depths at the offshore anchorage areas range between 27 to 59m. A full account of the depth range is provided in the supplementary bathymetric survey report (Att8_BS, Section 1.3.2, pg 6).

3.7 Describe the current condition of the environment relevant to the project area

Terrestrial

The Haul Road DE comprises mostly of uncleared land, with small areas of cleared tracks. The Haul Road DE consists of native vegetation in Excellent to Completely Degraded condition, with vegetation degradation caused by grazing (Att3_FV, Section 2.3.1 pg 27).

The Landside DE comprises a mixture of native vegetation and existing Port infrastructure. No vegetation or fauna habitat will be cleared within the Landside DE as part of this Proposed Action (Biota 2010).

Marine

The condition of the marine environment is currently considered to be good, with very low levels of anthropogenic contamination (Att5_MFIA, Section 4.3 pg 19). Waters are oligotrophic with low availability of nitrogen limiting rates of primary production. Nearshore DE waters are highly turbid whereas offshore DE waters are clear.

The current major pressure on water and sediment quality in the vicinity of the Project area is from shipping activity, pollution and mobilisation of contaminated sediments through maintenance dredging and waste discharges. Further detail is presented in Att5_MFIA, Section 4.3, page number 19. A full description of water quality is provided in Att11_WQ Section 4.3 pg K, and habitat quality in Att7_BCH, Section 2.4 pg 15 to 28.

3.8 Describe any Commonwealth Heritage places or other places recognised as having heritage values relevant to the project

There are no Commonwealth Heritage places within the Proposed Action vicinity.

3.9 Describe any Indigenous heritage values relevant to the project area

Haul Road DE

Portions of the haul road are located within the Kuruma Marthudunera Part B (WCD2018/003) native title determination area. The Robe River Kuruma Aboriginal Corporation (RRK) is the prescribed body corporate that holds the native title rights and interests on trust for the Kuruma Marthudunera people. MRL has further enhanced an already strong relationship with the RRK over the history of the AIP and continues to foster this relationship with regular meetings. This positive engagement is reinforced with the community through activities such as employment forums and donations of educational materials for the group.

The lower Cane River area, or the Peedamulla area, is located within and adjacent to the haul road DE. This area sits on land over which there has been no sustainable native title determination application (native title claim) has yet been lodged. Parts of this area were formerly subject to claims by the Noala People and Thalanyji People. The Peedamulla pastoral lease is held by the Jundaru Aboriginal Corporation, with the Ashburton Aboriginal Corporation as sublessee, both of which are corporations owned by the Banjima People. The Station is, managed by and for Aboriginal people, some of whom have cultural and heritage ties to the area. Registered native title determinations surrounding the Peedamulla/lower Cane River area include the Kuruma Marthudunera Part B, Yaburara & Mardudhunera (WCD2018/006) and Thalanyji (WCD2008/003) (National Native Title Tribunal Native Title Register).

The Lower Cane River has high cultural heritage significance due to the proximity of the Cane River Law Ground and associated places. Survey work in 1974 noted that that Aboriginal people were travelling from Yandeyarra, Roebourne and Port Hedland to attend ceremonies at Cane River, with attendance estimated from historical material to be in the hundreds (Department of Water 2011). The Cane River Law Ground is known to be used for initiation ceremonies with song related to the travels and exploits of ancestral beings along dreaming tracks, which are generally rivers. The pools, waterways and the



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vegetation which accesses water are important features associated with the Cane River Law Ground.

Some historical heritage surveys have been conducted that intersect the Haul Road DE however no heritage sites registered with Department of Planning, Lands and Heritage (DPLH) under the Aboriginal Heritage Act 1972 occur within that area. However, heritage surveys (archaeological and ethnographic) specific to the Proposed Action have been undertaken with additional surveys planned for mid-October 2021 along the Haul Road DE (Att1_Figures, Fig6_Heritage). MRL will manage any sites of Aboriginal heritage significance in accordance with current processes and in the legislative context of the Aboriginal Heritage Act 1972.

MRL is in the process of developing a Social Cultural Heritage Management Plan (SCHMP) with the RRK. Three specific heritage advisory committee meeting to discuss the content of the SCHMP have been undertaken to date, with a further on country meeting planned, which has to be rescheduled due to the recent passing away of an Elder. The on-ground meeting will recommence once the associated 'sorry business' is concluded.

MRL has undertaken several early and ongoing discussions with other knowledge holders from the region, including various members of the Banjima People the Indigenous owners of Peedamulla Station.

Landside DE

The area around the Port of Ashburton is the subject of the Thalanyji (WCD2008/003) native title determination. The Buurabalayji Thalanyji Aboriginal Corporation (BTAC) is the prescribed body corporate for the Thalanyji People. MRL is engaged in discussions with the Thalanyji in relation to the Proposed Action - while the port area intersects the determined claim area, other interactions with the group will also be with respect to any AIP effect on the township of Onslow.

A number of historical heritage surveys have been conducted that intersect the Landside DE however no heritage sites registered with DPLH under the Aboriginal Heritage Act 1972 occur within that area. MRL's activities within the Landside DE will be managed under a Heritage Management Plan approved by the PPA.

Nearshore and Offshore DEs

No heritage sites registered with DPLH under the Aboriginal Heritage Act 1972 occur within the Nearshore and Offshore Development Envelope. MRL has engaged with BTAC to discuss any concerns with respect to heritage values associated with the marine environment however no issues have been raised to date in this regard.

3.10 Describe the tenure of the action area (e.g. freehold, leasehold) relevant to the project area

The Haul Road DE is currently located on miscellaneous licences under the Mining Act 1978 L08/202, L08/205, L08/206, L08/208, L08/209, L08/210, L08/211, L08/212, L08/214, L08/215, L08/216, L08/219, L08/231, L08/232, L08/253 held by MRL and L08/199 (held by APIM) (Att1_Figures, Fig5_HR Tenements). All appropriate tenure will be issued under the Mining Act for development of the haul road and ancillary infrastructure.

MRL is planning on entering a commercial agreement with PPA, allowing the AIP to be developed and for MRL to carry out activities on PPA freehold vested lands, seabed or water areas. MRL's Development Application for the development, construction, and operation of port facilities at the Port of Ashburton (DA087 Onslow Iron Project) was assessment and approved by the PPA (with condition) on 6 September 2021.

Additionally, the Proposed Action is located on leasehold pastoral stations.

3.11 Describe any existing or any proposed uses relevant to the project area

The 2016 Australian Census provide socio-economic information for the Shire of Ashburton, and major towns of Onslow and Pannawonica. In 2016, there were 13,026 people living in the Shire of Ashburton. Of these, 72.4% were male and 27.6% were female. Aboriginal and/or Torres Strait Islander people made up 7.9% of the population, which is 1.5% lower than the average for regional WA. The median age of people living in the Shire of Ashburton was 36 years of age. The Onslow – Western Districts total population was 2,637, with 234 Aboriginal and/or Torres Strait Islander people equating to 9.1%. The Pannawonica and surrounds total population was 1,059, with 77 Aboriginal and/or Torres Strait Islander people equating to 7.3%.

Primary land uses in the vicinity of the private haul road are pastoral and mining purposes.

The Haul Road DE crosses two significant pastoral leases; Red Hill Pastoral Station and Peedamulla Pastoral Station, approximately 7km and 1.6km from each respective homestead. Access agreement negotiations are well progressed with both station owners and are progressing towards long term agreements to compensate the station owners for impacts of the linear infrastructure. To date, discussions have been positive and progressing to the point where agreements can be finalised in the near future. In addition to Red Hill and Peedamulla Pastoral Stations, the Haul Road will run adjacent to Minderoo Station and approximately 22km from the homestead. Whilst the Proposed Action will not intersect the station MRL will ensure that Proposed Action activities do not interfere with pastoral interests.

The Proposed Action is located on mineral and petroleum tenure. The Haul Road DE is surrounded by several exploration projects owned and operated by Quarry Park, North West Solar Salt and Mineral Edge. There are no mining operations underway at present for any of these activities.

Within the Landside DE several petroleum projects are operational, including the Chevron Wheatstone Facility. Proposed Action activities will not interfere with any mineral or petroleum activities.

Ashburton and Tortoise islands are situated over 20km from the Nearshore and Offshore DEs and are in closest proximity to the TSV navigation route out of all offshore islands within the project area. Bessieres and Thevenard islands are situated over 20km of both the TSV navigation route and the Offshore DE. Direction Island is situated over 20km of the TSV



Australian Government

Department of Agriculture, Water and the Environment

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navigation route. There are limited tourist accommodation facilities on Thevenard Island. There is no development on Ashburton, Bessieres, Direction, or Tortoise islands.

Recreational activities near the Port are mainly facilitated through the Onslow township and include fishing and walking in the seaside town.



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Section 4

Measures to avoid or reduce impacts

4.1 Describe the measures you will undertake to avoid or reduce impact from your proposed action

Terrestrial

Evaluation of the proposed haul road alignment was completed through iterative reviews of environmental, heritage, social, economic, constructability and engineering aspects. As a result of environmental baseline studies and investigations, the final alignment of haul road IF and DE differs greatly from the initial alignment. The original Haul Road DE was 25,930ha and encompassed 31.6ha of Mesas/Breakaways habitat type that is known denning and foraging habitat for Northern Quoll, potential roosting habitat for Ghost Bat, Pilbara Leaf-nosed Bat and potential shelter/denning habitat for Pilbara Olive Python. MRL has undertaken multiple redesigns of the haul road to reduce impacts to MNES species reducing the size of the DE to 16,209ha (by approx37%) and realigning the corridor to avoid all Mesas/Breakaways habitat (Fig3_DE_reduction).

A permanent camp for the operational workforce was considered for construction within the Haul Road DE near Onslow. However an opportunity now exists to construct accommodation within Onslow township separately from the AIP. As such the Haul Road DE was reduced include a temporary construction camp resulting less clearing and minimising impact to MNES fauna habitat.

MRL will utilise a public road constructed by Main Roads WA at the western end of the Haul Road DE, into the Port Landside DE instead of building a new road into the Port reducing fauna habitat clearing.

Overpasses and culverts will be installed along the Haul Road within Drainage Line/River/Creek (major & minor) habitats, minimising impact to creek lines and reducing fragmentation and dispersal habitat for several MNES fauna species.

A comprehensive suite of management measures developed for the Proposed Action has been provided for MNES known and likely to occur within the Haul Road DE is included in Att2_Terr SD Sect 5 pg 56 to 63

Marine

A pre-feasibility assessment was undertaken on the proposed port marine elements to understand potential environmental impacts of various transhipment options. The environmental footprint of the AIP was minimised based on the recommendations of this assessment. The AIP will utilise the Port navigation channels reducing the amount of overall capital dredging required

MRL investigated two options to construct the approach jetty including overhand construction and construction from a temporary causeway. Using a temporary causeway for construction of the approach jetty was preferred, as it provides the best environmental outcome, reducing the number of piles required for the jetty by almost half, and reduces the duration of proposed piling and construction time

The location of the jetty and associated components is situated away from mangroves adjacent to existing port infrastructure, additionally the design of the piled jetty structures minimises impacts on longshore current patterns

The desalination plant seawater intake and brine outlet pipelines have been located within the jetty conveyor corridor to the ocean, to avoid cumulative impacts from Port operations, on marine environmental quality

MRL proposes to utilise PPAs, existing Spoil Ground C for placement of dredge material. This presents a more environmentally acceptable option than onshore disposal (by reducing native vegetation clearing) or the establishment of a new offshore dredge material disposal location (avoiding possible impact to BCH)

An iterative process was undertaken to determine the final location of the anchorage points. Initial anchorage locations were investigated during the BCH survey and based on survey; alternative locations were identified. The final location of anchorage points, within the offshore DE was selected to avoid benthic habitats (Att1_Figures Fig2_DEs).

MRL's key aim is to avoid sensitive ecological windows for marine fauna species. Construction activities are planned from March to September, outside of the main seasons for turtle nesting and inter-nesting (January to March and October to December), sawfish pupping (October to November) and the peak timing for humpback whale cow-calf occurrence (June to October). However, if sensitive ecological windows cannot be avoided during construction, a hierarchy of management measures will be implemented to reduce risks, where impact avoidance cannot be achieved. This includes:

- Dedicated MFOs to undertake mitigation for piling and trained MOFs during dredging
- Piling operations to be undertaken during daylight hours
- Crew trained in marine fauna observations to undertake mitigation for dredging during the peak humpback whale season
- Dredging operations to be undertaken during daylight hours during the peak humpback whale season

A comprehensive suite of management measures developed for the Proposed Action has been provided for MNES known and likely to occur within marine environment are included in Att16_LM Sect 5 pg 33 to 38 and Att5_MFIA Sect 9 pg 50 to 56

4.2 For matters protected by the EPBC Act that may be affected by the proposed action, describe the proposed environmental outcomes to be achieved

Terrestrial

Evaluation of the proposed haul road alignment was completed through iterative reviews of environmental, heritage, social, economic, constructability and engineering aspects. As a result of findings of environmental baseline studies and investigations, the final alignment of haul road footprint and DE differs greatly from the initial alignment. The original Haul Road DE was 25,930ha and encompassed 31.6ha of Mesas/Breakaways habitat type that is known denning and foraging



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habitat for Northern Quoll, potential roosting habitat for Ghost Bat, Pilbara Leaf-nosed Bat and potential shelter/denning habitat for Pilbara Olive Python. MRL has undertaken multiple redesigns of the haul road to reduce impacts to MNES species, reducing the size of the DE to 16,209ha (by approx. 37%) and realigning the corridor to avoid all Mesas/Breakaways habitat (Fig3_DE_reduction).

A permanent camp for the operational workforce was considered for construction within the Haul Road DE near Onslow. However an opportunity now exists to construct accommodation within Onslow township separately from the AIP. As such the Haul Road DE was reduced include a temporary construction camp resulting less clearing and minimising impact to MNES fauna habitat.

MRL will utilise a public road constructed by Main Roads WA at the western end of the Haul Road DE, into the Port Landside DE instead of building a new road into the Port reducing fauna habitat clearing.

Overpasses and culverts will be installed along the Haul Road within Drainage Line/River/Creek (major & minor) habitats, minimising impact to creek lines and reducing fragmentation and dispersal habitat for several MNES fauna species.

A comprehensive suite of management measures developed for the Proposed Action has been provided for MNES known and likely to occur within the Haul Road DE is included in Att2_Terr SD Section 5 page 56 to 63

Marine

A pre-feasibility assessment was undertaken on the proposed port marine elements to understand potential environmental impacts of various transhipment options. The environmental footprint of the AIP was minimised based on the recommendations of this assessment. The AIP will utilise the Port navigation channels reducing the amount of overall capital dredging required

MRL investigated two options to construct the approach jetty including overhand construction and construction from a temporary causeway. Using a temporary causeway for construction of the approach jetty was preferred, as it provides the best environmental outcome, reducing the number of piles required for the jetty by almost half, and reduces the duration of proposed piling and construction time

The location of the jetty and associated components is situated away from mangroves adjacent to existing port infrastructure, additionally the design of the piled jetty structures minimises impacts on longshore current patterns

The desalination plant seawater intake and brine outlet pipelines have been located within the jetty conveyor corridor to the ocean, to avoid cumulative impacts from Port operations, on marine environmental quality

MRL proposes to utilise PPAs, existing Spoil Ground C for placement of dredge material. This presents a more environmentally acceptable option than onshore disposal (by reducing native vegetation clearing) or the establishment of a new offshore dredge material disposal location (avoiding possible impact to BCH)

An iterative process was undertaken to determine the final location of the anchorage points. Initial anchorage locations were investigated during the BCH survey and based on survey; alternative locations were identified. The final location of anchorage points, within the offshore DE was selected to avoid benthic habitats (Att1_Figures, Fig2_DEs).

MRL's key aim is to avoid sensitive ecological windows for marine fauna species. Construction activities are planned from March to September, outside of the main seasons for turtle nesting and inter-nesting (January to March and October to December), sawfish pupping (October to November) and the peak timing for humpback whale cow-calf occurrence (June to October). However, if sensitive ecological windows cannot be avoided during construction, a hierarchy of management measures will be implemented to reduce risks, where impact avoidance cannot be achieved. This includes:

- Dedicated MFOs to undertake mitigation for piling and trained MOFs during dredging
- Piling operations to be undertaken during daylight hours
- Crew trained in marine fauna observations to undertake mitigation for dredging during the peak humpback whale season
- Dredging operations to be undertaken during daylight hours during the peak humpback whale season

A comprehensive suite of management measures developed for the Proposed Action has been provided for MNES known and likely to occur within marine environment are included in Att16_LM Section 5 pg 33 to 38 and Att5_MFIA Section 9 pg 50 to 56



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

Section 5

Conclusion on the likelihood of significant impacts

5.1 You indicated the below ticked items to be of significant impact and therefore you consider the action to be a controlled action

- World Heritage properties
- National Heritage places
- Wetlands of international importance (declared Ramsar wetlands)
- Listed threatened species or any threatened ecological community
- Listed migratory species
- Marine environment outside Commonwealth marine areas
- Protection of the environment from actions involving Commonwealth land
- Great Barrier Reef Marine Park
- A water resource, in relation to coal seam gas development and large coal mining development
- Protection of the environment from nuclear actions
- Protection of the environment from Commonwealth actions
- Commonwealth Heritage places overseas
- Commonwealth marine areas

5.2 If no significant matters are identified, provide the key reasons why you think the proposed action is not likely to have a significant impact on a matter protected under the EPBC Act and therefore not a controlled action

Terrestrial

Based on the information and assessment set out in Att2_TerrSD Sect 8 pg 94 it is considered unlikely that the Proposed Action will significantly impact any terrestrial MNES species due to

- The Haul Road will avoid Mesas and Breakaway habitat representing potential Northern Quoll denning and foraging habitat. Avoiding Mesas and Breakaway habitat also reduces impacts to potential denning and roosting habitat for Ghost Bat, Pilbara Leaf-nosed Bat and Pilbara Olive Python
- The Ghost Bat is considered to use the Haul Road DE for foraging. There are no known maternity, day or night roost in the Haul Road DE
- The Pilbara Leaf-nosed Bat is considered transitory, with no records within the Haul Road DE or known local permanent roost nearby
- The Pilbara Olive Python and Grey Falcon were not recorded within the Haul Road DE or Survey Area. Clearing in Drainage Line/River/Creek (major & minor) habitat will be minimised to reduce impacts on habitat that represents shelter, breeding/nesting, foraging and dispersal habitat for these species
- All migratory bird species likely to occur in the Haul Road DE do not solely depend on that habitat for their survival. Most migratory birds are non-breeding visitors to Australia and use various habitats to forage. No habitat is limited to the Haul Road DE

- Waterway crossing infrastructure will be put in place over major rivers and creeks that intersect the Haul Road DE therefore there will be limited direct impact on the Drainage Line/River/Creek (major) habitat. Dispersal habitat for MNES species (Northern Quoll, Ghost Bat, Pilbara Leaf-nosed Bat, Pilbara Olive Python and Grey Falcon) will remain
- Up to 268ha of Drainage Line/River/Creek (major and minor) habitat will be cleared. This represents breeding/nesting, foraging and dispersal habitat for all the MNES species likely to occur within the Haul Road DE. This habitat is not restricted to the Haul Road DE and is found in the Survey Area
- Up to 150ha of Stony Hills and Slopes habitat will be cleared, representing foraging and dispersal habitat for MNES species. This habitat is not restricted to the Haul Road DE or the Survey Area

Marine

Based on the information and assessment set out in Att5_MFIA Sect 10 pg 57 to 59 it is considered unlikely that the Proposed Action will significantly impact any marine MNES due to

- Long term decreases in population size are not expected for any marine fauna populations in the area due to the limited potential for impact. With appropriate control measures including monitoring an adaptive management of light emissions the risk of this potential impact will be further reduced
- Individuals or populations are not expected to be displaced from existing habitat and therefore the area of occupancy is not expected to be reduced
- No aspects of the Proposed Action are expected to create a barrier to movement of individuals or displace individuals or populations which could cause population fragmentation
- No habitats on the Register of Critical Habitat under the EPBC Act are located within the Proposed Action DEs or adjacent areas
- Management measures to reduce potential impacts of artificial light will prevent adverse effects to nesting island habitat critical for the survival of flatback, hawksbill and green turtle species (DoEE 2017)
- Disruption to the breeding cycle of a population is not expected for marine MNES. With appropriate control measures including monitoring an adaptive management of light emissions, the risk of this potential impact will be further reduced
- Although light may be visible from foraging habitat for both seabirds and shorebirds, and nesting habitat for turtles,



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the presence of light is not expected to adversely impact this habitat. Nocturnal roost sites are not expected to be impacted by light to the extent that species populations will decline

- In addition, dredging resulting in benthic habitat removal and increased turbidity within the Nearshore DE is expected however critical habitat does not exist within the Nearshore DE and is mostly comprised of both bare substrate with occasional areas of limestone pavement. Turbidity is only expected to be localised and temporary

- Appropriate dilution of brine discharge based on ecotoxicity testing and brine modelling would result in a low risk to benthic habitat within the low ecological protection area that has been applied around the diffuser outfall

- Although marine pests can be introduced during operations through ballast water exchange or bio fouling, with appropriate mitigation measures the risk of marine pest incursion during operations is considered to be negligible

- No vectors for introduced disease have been identified

- Therefore, the potential for residual impacts to marine MNES is low and significant impacts are not expected. The Proposed Action is not expected to interfere with the recovery of any species present



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

Section 6

Environmental record of the person proposing to take the action

6.1 Does the person taking the action have a satisfactory record of responsible environmental management? Explain in further detail

Yes. Onslow Iron Pty Ltd is a wholly-owned subsidiary of Mineral Resources Limited. The Mineral Resources Group (comprising MRL and its related bodies corporate) has a satisfactory record of responsible environmental management for its operations. The Mineral Resources Group uses a well-developed Environmental Management System which include policies, systems and procedures to manage environmental risks and impacts.

6.2 Provide details of any past or present proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources against either (a) the person proposing to take the action or, (b) if a permit has been applied for in relation to the action – the person making the application

MRL has not been (and is not currently) subject to proceedings under any law for the protection of the environment or conservation & sustainable use of natural resources. Certain other entities within MRL Group have been subject to proceedings as follows for the previous 5yrs:

- Non-compliances for construction & operation of infrastructure not in accordance with an approved instrument(5)
- Unauthorised discharges a result of infrastructure malfunction(3)
- Breaches of tenement conditions(2)
- Rehabilitation remedial works
- Contravention of licence condition post a reported emergency discharge event
- Notice of non-compliance received for non-compliance associated with MS condition relating to the introduction of weeds

No matters were related to the AIP. No fines have been received by any member of the MRL Group in the previous 5yrs in connection with proceedings under any law for the protection of the environment or conservation & sustainable use of natural resources

6.3 If it is a corporation undertaking the action will the action be taken in accordance with the corporation's environmental policy and framework?

Yes No

6.3.1 If the person taking the action is a corporation, provide details of the corporation's environmental policy and planning framework

MRL operations are governed by the MRL Environmental Management System (EMS), developed in line with principles of ISO 14001:2015 – Environmental Management Systems standard. Environmental management is embedded in MRL's culture and is fundamental to the Company's success. MRL has progressively developed its EMS to ensure that environmental impacts are minimised across its operations.

At its core, the MRL EMS is a system of practices and procedures relating to:

- The identification of aspects and impacts related to MRL's mining operations.
- The implementation of management measures to avoid or minimise impacts on the environment and communities in which we operate.
- The evaluation of environmental performance and review of the system to facilitate continual improvement and sustainable mining practises.

Implementation of the EMS ensures MRL:

- Maintains a consistent and sustainable approach to environmental management across all of its operations
- Fulfils the legal obligations and other commitments relevant its operational activities; and
- Minimises adverse environmental impacts, prevents pollution and reduces waste from its activities.

MRL's EMS comprises overarching Environment, Community and Heritage Policies supported by company-wide and site-specific standards, procedures and plans (Att18_EP). Key elements addressed in the EMS include; risk identification and management; roles and responsibilities; training; non-compliance and corrective action management; inspection and auditing; reporting; record keeping; and continual improvement. The EMS provides operational controls to effectively manage aspects and impacts specifically relating to MRL's activities, including but not limited to; native vegetation clearing; surface and groundwater use; flora; fauna; waste; heritage; land rehabilitation; and chemical management.

6.4 Has the person taking the action previously referred an action under the EPBC Act, or been responsible for undertaking an action referred under the EPBC Act?

Yes No

6.4.1 EPBC Act No and/or Name of Proposal

- 2021/8955 Polaris Metals Pty Ltd – Parker Range Mt Caudan Iron Ore Haul Road Proposal
- 2018/8194 Mineral Resources Limited - Wodgina Lithium Mine Expansion
- 2016/7637 Mineral Resources Limited - Pilbara Bulk Ore Transport System Project



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- 2015/7494 Mineral Resources Limited - J5 and Bungalbin East Iron Ore Project
- 2013/6844 Iron Ore Holdings Ltd – Cape Preston East – Iron Ore Export Facilities
- 2013/6867 Iron Ore Holdings Ltd – Buckland Iron Ore Mining Project
- 2012/6666 Polaris Metals Pty Ltd – Lamb Creek Iron Ore Project
- 2012/6459 Iron Ore Holdings Ltd – Iron Valley Iron Ore Project
- 2011/5892 Brockman Resources – Marillana Iron Ore Project
- 2010/5759 Process Minerals International Pty Ltd - Poondano Iron Ore Project
- 2010/5435 Polaris Metals Pty Ltd Parker Range Iron Ore Project - Mount Caudan Deposit
- 2009/5107 Iron Ore Holdings Ltd – Phil's Creek Iron Ore Project (transferred to Process below)
- 2009/5107 Process Minerals International Pty Ltd -Phil's Creek Iron Ore Project
- 2009/4706 API Management Pty Ltd - West Pilbara Iron Ore Mine and Rail Project
- 2008/4501 Polaris Metals Pty Ltd – Develop Carina Iron Ore Project
- 2008/4449 Cliffs Asia Pacific Iron Ore Pty Ltd Koolyanobbing Iron Ore Expansion Project - Mt Jackson J1 Deposit
- 2001/174 Cliffs Asia Pacific Iron Ore Pty Ltd Koolyanobbing Iron Ore Expansion - Mt Jackson /Windarling



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

Section 7

Information sources

Reference source

ARUP (2015). Ashburton North Strategic Industrial Area (ANSIA) Engineering Gap Analysis Report. Available at Appendix B Engineering Gap Analysis (www.wa.gov.au). Last accessed 23/9/2021.

Reliability

Moderate to high – published consultant's report.

Uncertainties

None

Reference source

Bancroft, W. and Bamford, M. (2018). ANSIA Stage 2 Fauna Assessment. Prepared for RPS Australia Asia Pacific, West Australia. Available at: https://consultation.dplh.wa.gov.au/land-use-planning/ashburton-north-improvement-scheme/supporting_documents/IS1ANSIAmd%201%20Fauna%20Assessment.pdf. Accessed October 2021.

Reliability

High – based on expert knowledge and opinion

Uncertainties

Species recorded are highly mobile; therefore, results are indicative of likely use only.

Reference source

Biota Environmental Sciences (2010) - A Vegetation and Flora and Survey of the Wheatstone Study Area, near Onslow. Prepared for URS Australia Pty Ltd on behalf of Chevron Australia Pty Ltd. Available: https://www.epa.wa.gov.au/sites/default/files/PER_documentation/wheatstone-draft-eis-ermp-technical-appendices-g1-h1-i1-i-web.pdf. Accessed October 2021.

Reliability

High – based on expert knowledge and opinion

Uncertainties

Rare species, fungi and nonvascular flora were not specifically sampled in this study.

The distribution of vegetation sub-associations outside of the study area is uncertain as the study were defined based on interpretation of aerial photography signature combined with site data and field mapping notes.

Floristic analysis is limited.

The report did not discuss any potential impacts from the development and management

Reference source

DoEE 2020. National Light Pollution Guidelines for Wildlife – Including marine turtle, seabirds and migratory shorebirds. Available at: <https://www.environment.gov.au/system/files/resources/2eb379de-931b-4547-8bcc-f96c73065f54/files/national-light-pollution-guidelines-wildlife.pdf> Accessed October 2021.

Reliability

High – published government document.

Uncertainties

None

Reference source

DoEE. 2017. Recovery Plan for Marine Turtles in Australia. Retrieved from <http://www.environment.gov.au/system/files/resources/46eedfcf-204b-43de-99c5-4d6f6e72704f/files/recovery-plan-marine-turtles-2017.pdf>

Reliability



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

High – published government document.

Uncertainties

None

Reference source

Department of the Environment (DoE) 2013. Matters of National Environmental Significance: Significant impact guidelines 1.1. Canberra, Australia. Available at: http://www.environment.gov.au/system/files/resources/42f84df4-720b-4dcf-b262-48679a3aba58/files/nes-guidelines_1.pdf

Reliability

High – published government document.

Uncertainties

None

Reference source

DSEWPaC. (2012). Species group report card – Sharks and sawfishes. Department of Sustainability, Environment, Water, Population and Communities.

Reliability

High – published government document.

Uncertainties

None

Reference source

EPA (2016). Environmental Assessment Guideline: Marine Fauna. Available at: <https://www.epa.wa.gov.au/policies-guidance/environmental-factor-guideline-marine-fauna>

Accessed: October 2021

Reliability

High – published government document.

Uncertainties

None

Reference source

EPA (2010) No.5 Environmental Assessment Guideline for Protecting Marine Turtles from Light Impacts. Available at: https://www.epa.wa.gov.au/sites/default/files/Policies_and_Guidance/EAG%205%20Lights%20Turtle%2011110.pdf. Accessed: March 2021.

Reliability

High – published government document.

Uncertainties

None

Reference source

ENV Australia (2010). ANSIA District Water Management Strategy. Cited in ARUP 2015.

Reliability

Moderate to high – published consultant's report.

Uncertainties



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Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

None

Reference source

Taylor Burrell Barnett 2019 Ashburton North Strategic Industrial Area (ANSIA) Improvement Scheme No 1. Scheme Amendment Request. Available at <https://www.dplh.wa.gov.au/getmedia/f8c5388e-d9b0-4478-a909-7cfe67bc9628/IMP-ANSIA-Stage-2-Scheme-Amendment-Request-Report-Minister-endorsed-28-Jan-2020.pdf>. Accessed 23/9/2021.

Reliability

Moderate to high – published consultant's report.

Uncertainties

None

Reference source

URS (2011). Wheatstone Project Baseline Soil Quality and Landforms Assessment. Available at wheatstone-draft-eis-ermp-technical-appendices-g1-h1-i1-i-web.pdf (chevron.com). Last accessed 22/9/2021.

Reliability

Moderate to high – published consultant's report.

Uncertainties

None

Reference source

URS (2010). Wheatstone Project Groundwater Studies. Available at wheatstone-draft-eis-ermp-technical-appendices-g1-h1-i1-i-web.pdf (chevron.com). Last accessed 22/9/2021.

Reliability

Moderate to high – published consultant's report.

Uncertainties

None

Reference source

Department of Water (2011). Water resource allocation and planning series. Lower Cane groundwater allocation limit report. Method used to set an allocation limit and licensing rules for the lower Cane alluvial aquifer. Looking after all our water needs. Report no. 51, June 2011. Available at https://www.water.wa.gov.au/__data/assets/pdf_file/0015/4407/99458.pdf. Accessed 25/09/2021

Reliability

High – published government document.

Uncertainties

None



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Section 8

Proposed alternatives

Do you have any feasible alternatives to taking the proposed action?

Yes No



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Section 9

Person proposing the action

9.1.1 Is the person proposing the action an organisation or business?

Yes No

Organisation

Organisation name (as registered for ABN/ACN) A.C.N. 612 668 201 PTY LTD

Business name

ABN 56612668201

ACN

Business address

1 Sleat Rd, Applecross, 6153, WA, Australia

Postal address

Main Phone number 08 9329 3600

Fax

Primary email address les.purves@mrl.com.au

Secondary email address

9.1.2 I qualify for exemption from fees under Regulation 5.23(1)(ii) of the EPBC Regulations because I am:

Small business
 Not applicable

9.1.2.2 I would like to apply for a waiver of full or partial fees under Regulation 5.21A of the EPBC Regulations

Yes No

9.1.3 Contact (for an organisation - the contact details of the person authorised to sign on behalf of the organisation)

First name Les

Last name Purves

Job title General Manager - Environment, Communities, Land Access

Phone 08 9329 3407

Mobile 0437 595 684

Fax

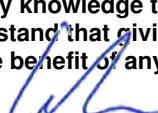
Email Les.purves@mrl.com.au

Primary address 1 Sleat Rd, Applecross, 6153, WA, Australia

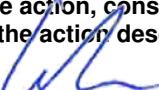
Address

Declaration: Person proposing the action (To be signed by the person at 9.1.3)

I, Les Purves, declare that to the best of my knowledge the information I have given on, or attached to the EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence. I declare that I am not taking the action on behalf or for the benefit of any other person or entity.

Signature:  Date: 05/10/2021

I, Les Purves, the person proposing the action, consent to the designation of _____ as the proponent for the purposes of the action described in this EPBC Act Referral.

Signature:  Date: 05/10/2021



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Proposed designated proponent

9.2.1 Is the proposed designated proponent an organisation or business?

Yes No

Organisation

Organisation name (as registered for ABN/ACN)

A.C.N. 612 668 201 PTY LTD

Business name

ABN

ACN

Business address

56612668201

1 Sleat Rd, Applecross, 6153, WA, Australia

Postal address

Main Phone number

08 9329 3600

Fax

Primary email address

les.purves@mrl.com.au

Secondary email address

9.2.2 Contact (for an organisation - the contact details of the person authorised to sign on behalf of the organisation)

First name

Les

Last name

Purves

Job title

General Manager – Environment, Communities, Land Access

Phone

08 9329 3407

Mobile

0437 595 684

Fax

Email

Les.purves@mrl.com.au

Primary address

1 Sleat Rd, Applecross, 6153, WA, Australia

Address

Declaration: Proposed Designated Proponent

I, Les Purves

, the

proposed designated proponent, consent to the designation of myself as the proponent for the purposes of the action described in this EPBC Act Referral.

Signature:  Date: 05/10/2021



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Referring party (person preparing the information)

9.3.1 Is the referring party an organisation or a business?

Yes No

Organisation

Organisation name (as registered for ABN/ACN) A.C.N. 612 668 201 PTY LTD

Business name

ABN

ACN

Business address

1 Sleat Rd, Applecross, 6153, WA, Australia

Postal address

Main Phone number 08 9329 3600

Fax

Primary email address les.purves@mrl.com.au

Secondary email address

9.3.2 Contact (for an organisation - the contact details of the person authorised to sign on behalf of the organisation)

First name Les

Last name Purves

Job title General Manager – Environment, Communities, Land Access

Phone 08 9329 3407

Mobile

Fax

Email Les.purves@mrl.com.au

Primary address 1 Sleat Rd, Applecross, 6153, WA, Australia

Address

Declaration: Referring party (person preparing the information)

I, Les Purves

, declare that

to the best of my knowledge the information I have given on, or attached to this EPBC Act Referral is complete, current and correct. I understand that giving false or misleading information is a serious offence.

Signature: Date:

05/10/2021



Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

Appendix A

Attachment

Document Type	File Name
action_area_images	*Att1_Figures.pdf
action_area_images	Att1_Figures_v2.pdf
public_consultation_reports	**Att17_Stakeholder.pdf
supporting_tech_reports	Att16_LM.pdf
supporting_tech_reports	Att2_Terr SD.pdf
supporting_tech_reports	Att5_MFIA.pdf
supporting_tech_reports	Att15_UNM.pdf
flora_fauna_investigation	Att3_FV - Part 3 of 3.pdf
flora_fauna_investigation	Att3_FV - Part 1 of 3.pdf
flora_fauna_investigation	Att3_FV - Part 2 of 3.pdf
flora_fauna_investigation	Att4_Fauna - Part 1 of 2.pdf
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hydro_investigation_files	Att12_DBPM.pdf
hydro_investigation_files	Att13_DMP.pdf
hydro_investigation_files	Att14_IMP.pdf
corp_env_policy_docs	Att18_EP.pdf

Appendix B

Coordinates

Area 1
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* NOT PUBLISHED - SUPERSEDED

** NOT PUBLISHED - SENSITIVITIES



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Department of Agriculture, Water and the Environment

Note: PDF may contain fields not relevant to your application. These fields will appear blank or unticked. Please disregard these fields.

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