Native Vegetation Clearing Permit Referral Supporting Document

January 2022



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1. Introduction

Horizon Power is a State Government owned energy utility, responsible for power generation, retail supply and network electrical infrastructure in the North-West Interconnected System (NWIS) which services areas in the Pilbara. Horizon Power operates under and is bound by its duties and obligations under the *Energy Operators (Powers) Act 1979* (EOPA). Horizon Power, is responsible for determining any future network developments in its service area that may be required to accommodate increased capacity and/or future demands on the supply system.

The Maitland Strategic Industrial Area (Maitland SIA) is a 2,500 hectare area of land located south of Karratha township. The Maitland SIA has been designated by the State Government to promote and facilitate the processing of Western Australia's (WA) natural resources in the Pilbara region. Horizon Power is currently undertaking a feasibility assessment for a potential network expansion between the Maitland SIA and the existing Horizon Power substation on Stovehill Road, Karratha. As part of the feasibility assessment, Horizon Power intends on undertaking a geotechnical investigation as authorised under Sections 28 and 49 of the EOPA.

It is noted that the geotechnical investigations do not represent preparatory or preliminary works associated with the development of transmission infrastructure. Rather, these activities are wholly distinct from any potential future development proposal and are a precursor to any Horizon Power decision to proceed with detailed design and the associated regulatory processes.

To support native vegetation clearing approvals, GHD completed flora and fauna surveys in April 2020 of the proposed geotechnical investigation corridor. Due to engineering constraints identified at the mid-point of the line, Horizon Power has revised the design and subsequent alignment. Additional environmental surveys will be undertaken on the new alignment in March to June 2022 consistent with Environmental Protection Authority recommended survey timing.

Should Horizon Power wish to progress a potential network connection between Maitland SIA and the substation, then the relevant approvals under the *Environmental Protection Act 1986* will sought.

2. Purpose

Horizon Power considers that geotechnical investigations meet the DWER Guideline: Native Vegetation Clearing Referrals Criterion for being a 'low impact activity' and are suitable for a DWER determination of 'no permit required', as permitted under the revised *Environmental Protection Act 1986* (EP Act). This document provides an assessment of the clearing activity against each Criterion, to support DWER's review and consideration.

This document includes:

 An overview of the works required and a description of the proposed clearing activity to be undertaken;

- An assessment of the clearing against the DWER criterion for low impact activities; and
- Avoidance and mitigation measures applied to eliminate, reduce, or otherwise mitigate the need for and scale of the proposed clearing of native vegetation

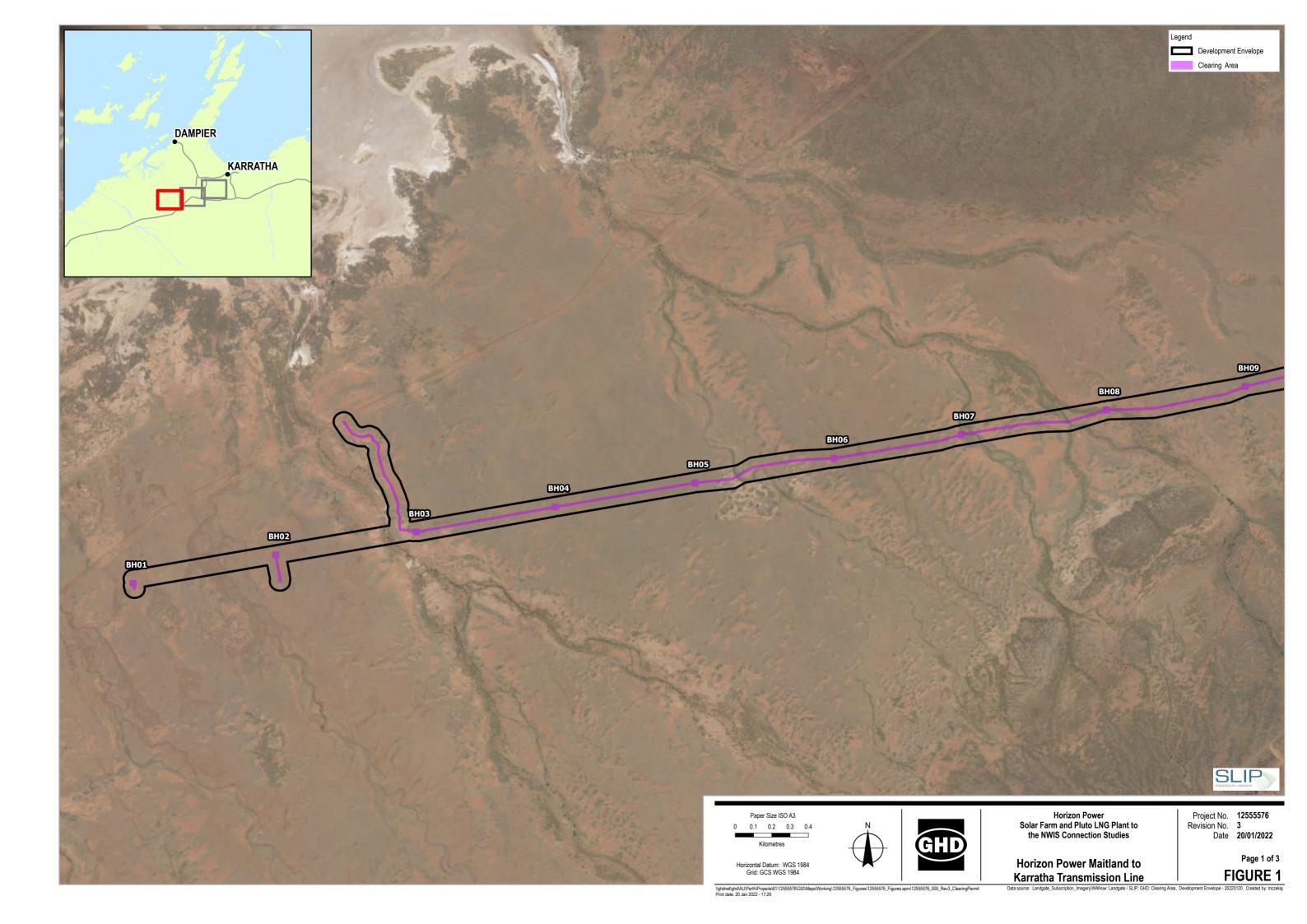
3. Background

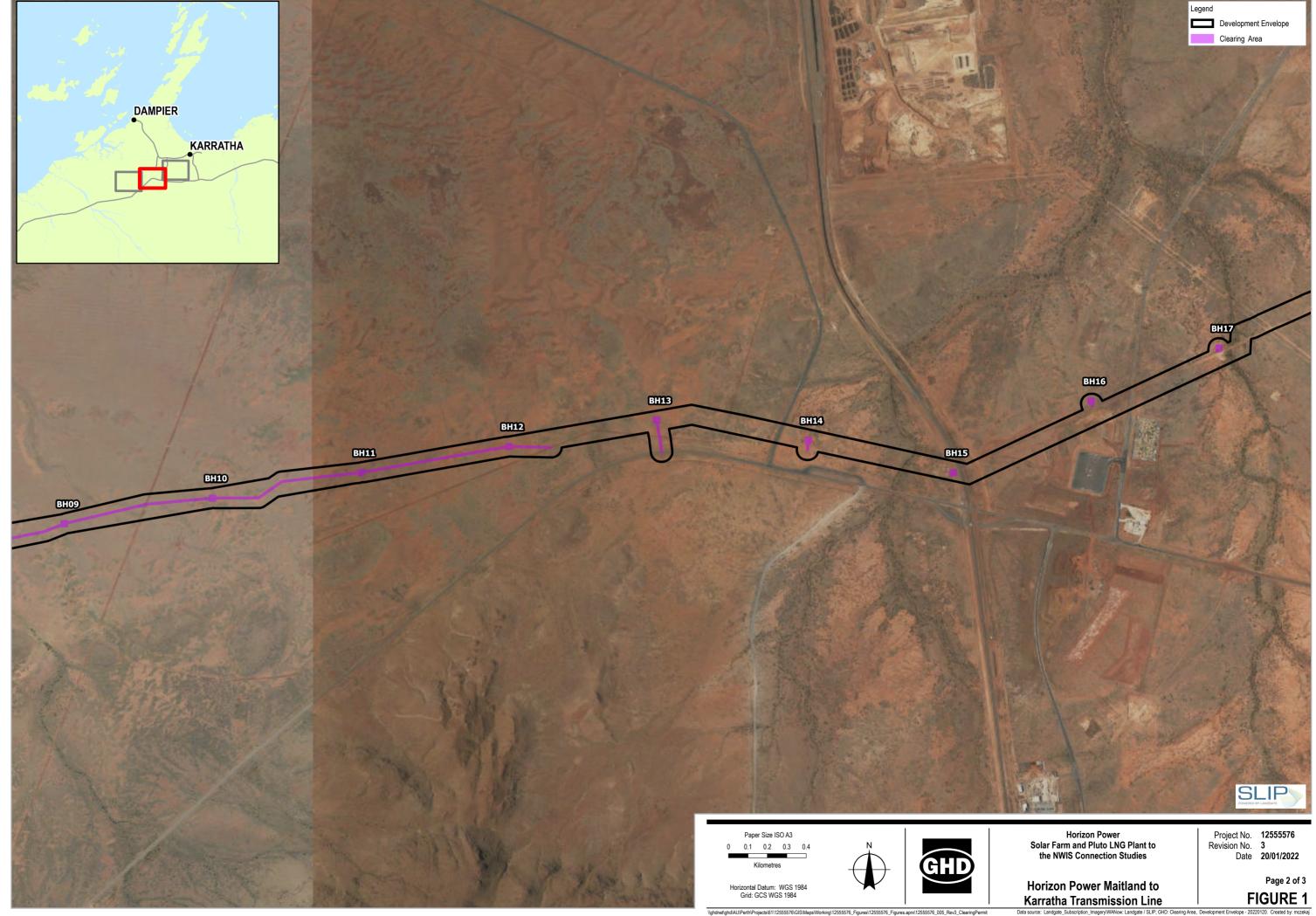
3.1. Geotechnical Corridor

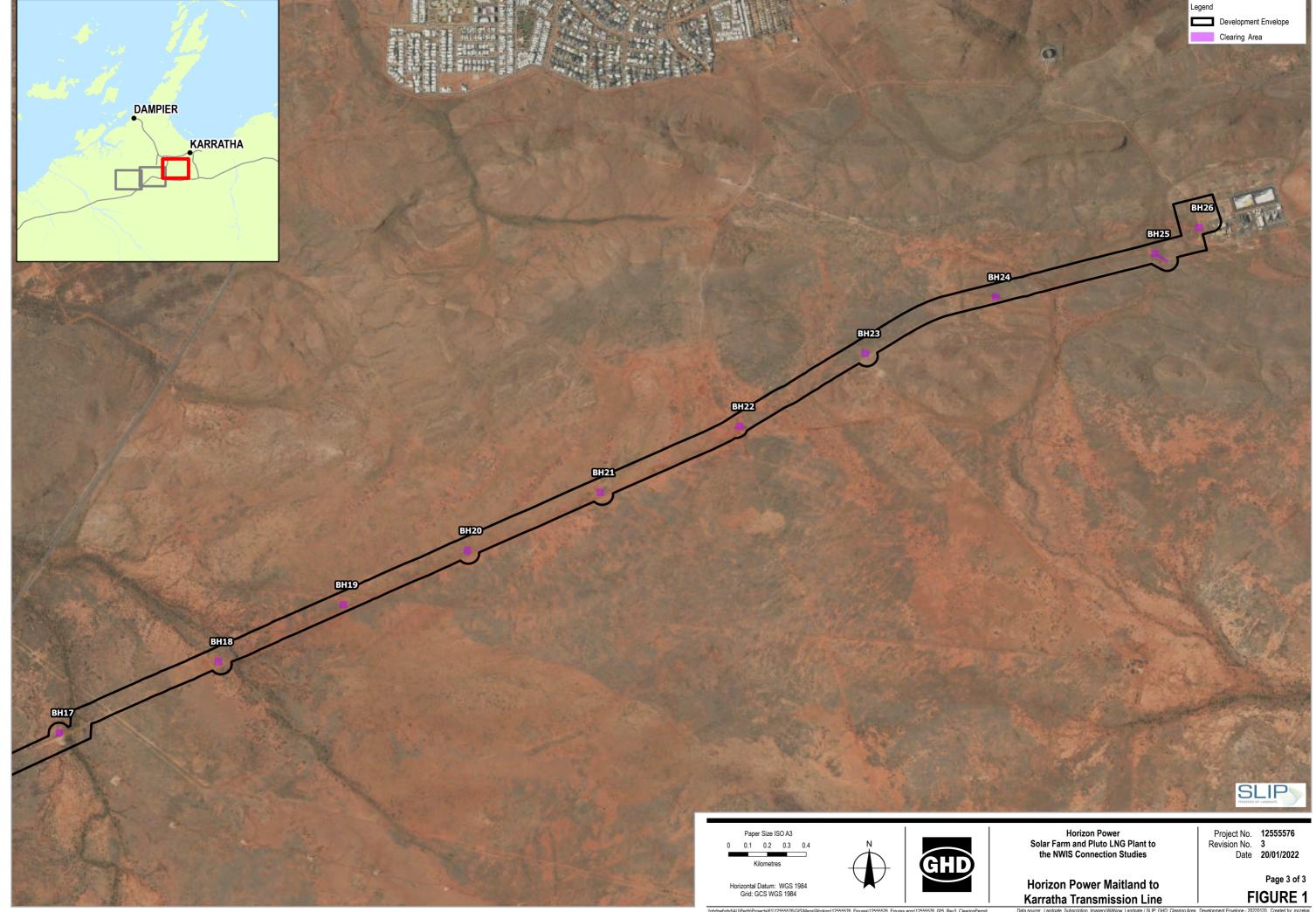
As part of a feasibility assessment for a potential network connection, Horizon Power must undertake geotechnical works along the proposed alignment to inform the engineering design of any proposed new network infrastructure including the size and type of pole/tower structures, route selection, span length, potential engineering and construction constraints, and the overall disturbance footprint. Based on the findings of the geotechnical investigations, Horizon Power may be required to alter the proposed alignment. This information is a precursor to undertaking stakeholder engagement that will further influence the type and location of any proposed infrastructure.

The geotechnical investigation will consist of 26 test sites. Two test pits will be required on either side of the rail line and at least one borehole. The test pits will be excavated using a backhoe and will be approximately 1 m by 5 m and advanced to a depth of approximately 2 m. An area of approximately 2 m x 4 m adjacent to each pit will be required to temporarily stockpile the excavated soil. The remainder 24 test sites will involve the installation of vertical bore holes using a truck mounted drill rig. The drill rig will require an accompanying support vehicle. Due to potential impacts to native vegetation from vehicle and machinery movements, the clearing impact is based on an estimated disturbance footprint of 25 m by 25 m.

Where possible the access points have been located on sparse vegetation or existing disturbed areas. Some areas, namely the area west of rail line is relatively undeveloped and driving of machinery and support vehicles over native vegetation for access is required. Approximately 7.5 km of incidental temporary clearing due to vehicle access tracks (50% of a 3 m wide track) has been included as part of the clearing calculations. No mechanical clearing will be undertaken in these areas.







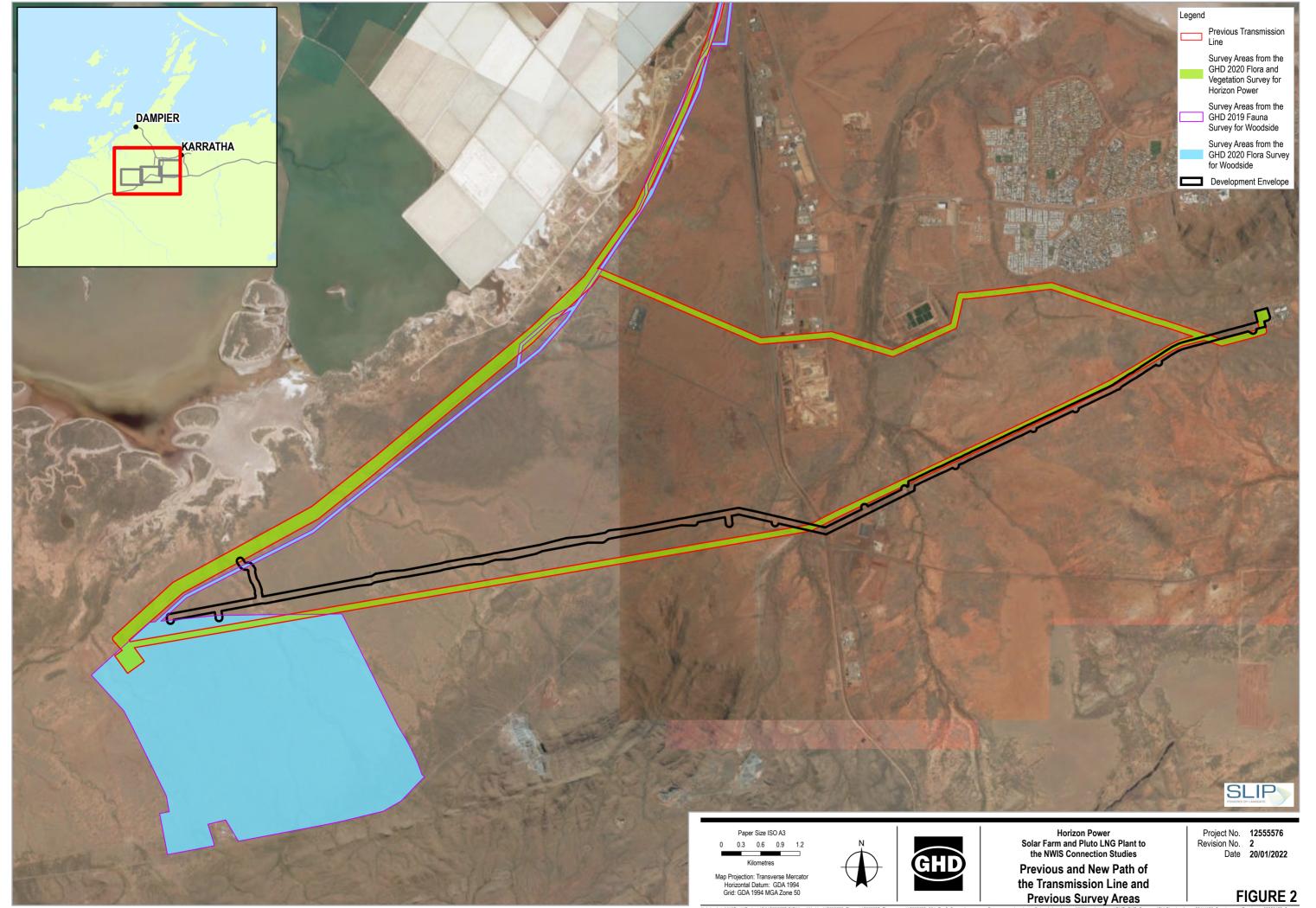
3.2. Surveys Undertaken

GHD has undertaken three surveys in the surrounding area of the proposed clearing within the previous two years and can demonstrate a sound understanding of the locally occurring flora, vegetation and fauna of the area under consideration. Though the proposed Geotechnical Corridor (GC) has not been surveyed, the previous surveys were conducted within close proximity and have been relied on to inform this referral. An overview of the surveys and findings is shown in Table 1. The location of the previous surveys in relation to the proposed clearing is shown in Figure 2.

Table 1 Previous surveys undertaken in project vicinity

Survey	Findings	Distance to proposed geotechnical works
Flora and Vegetation Survey – Woodside Solar PV, Power Plant and Transmission Corridor Vicky Long & Associates for GHD 2019	 Southern Survey Results No Threatened Ecological Communities (TECs) were recorded in the survey area The area was too dry to allow for the identification of either of the two potential Priority Ecological Communities (PECs), Priority 1 and Priority 3 Roebourne Plains coastal grasslands with gilgai microrelief on deep cracking clays (P1) Horseflat land system of the Roebourne plains (P3) The substrate inspected indicated that the P1 PEC is less likely to be present 106 plant species were recorded during survey No species of conservation significance were recorded Five weed species, one of which is a Declared Pest under the Biosecurity and Agriculture Management Act 2007 and Weed of National Significance, were recorded during the survey. 	The southern part of the survey area overlaps by approximately 50 m into of the western end of the GC
Fauna Survey – Woodside Solar PV, Power Plant and Transmission Corridor GHD 2020	 Nine main fauna habitats were recorded of moderate to high value Two fauna habitats were recorded in the vicinity of the proposed clearing area Tussock grasslands on cracking clays, deemed of moderate value Minor drainage, deemed of high value Recorded six species of conservation significance, but not in the area adjacent to the GC. Identified 11 further species that were likely to occur in the survey area. 	The southern part of the survey area overlaps by approximately 50 m into of the western end of the GC
Flora and Vegetation Survey – Horizon Power Burrup Expansion GHD 2020	 Nineteen vegetation types were identified No TECs were identified in the survey area Two PECs were identified The PEC in the vicinity of the GC is the Horseflat land system of the Roebourne Plains (P3). Approximately 173 ha of the PEC was recorded in the survey area, ranging from Degraded to Excellent condition. 	The previous surveyed area is approximately 400 m south of GC on the western side and follows adjacent on the eastern side.

Survey	Findings	Distance to proposed geotechnical works
	 No Threatened flora species were recorded within the survey area 	
	Four Priority species were recorded:	
	 Rhynchosia bungarensis (P4) 	
	 Terminalia supranitifolia (P3) 	
	 Vigna Triodiophila (P3) 	
	 Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479). The species has since been renamed to Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479). 	
	 Of the four Priority species, one was recorded approximately 400 m south of the GC, Oldenlandia sp. Hamersley Station 	



3.3. Proposed clearing activity

The proposed geotechnical activities will result in a maximum temporary disturbance footprint of 3 ha of native vegetation. The 3 ha accounts for 1.96% of the GC. The proposed clearing /disturbance is comprised of:

- 1.16 ha (59% of total proposed clearing) of temporary disturbance by vehicle and machinery tracks within the GC. Vegetation will not be mechanically cleared.
 Vegetation will be driven over to access the test sites. Please note this calculation is based on 50% disturbance of 3 m wide access tracks (2.32 ha envelope).
- 2) 1.63 ha (41% of total proposed clearing) of clearing for geotechnical test pits and boreholes. This is comprised of 26 geotechnical tests sites sized 25 m x 25 m, each one within a 100 m wide GC to allow for flexibility when placing the tests in the field. Locations shall be selected to reduce vegetation impacts with preference for sparse areas. Information from heritage surveys or heritage monitors will also inform final locations.

0.21 ha has been included as contingency to allow for changes based on site conditions/findings.

3.4. Suitability for referral process

The DWER *Guideline: Native vegetation clearing referrals* (GoWA 2021d) outlines nine suitability aspects for clearing activities to be deemed appropriate for a clearing referral. Table 2 Clearing referral suitability assesses the proposed clearing activity against the GoWA 2021d criteria.

Table 2 Clearing referral suitability

Aspect	Assessment	Suitability
Land that is subject to reserve a conservation covenant under the Soil and Land Conservation Act 1945 (SLC Act)	Land not subject to a conservation covenant	Suitable
Land that is subject to an environmental protection covenant under Part VB of the EP Act	ronmental protection nant under Part VB of the	
Clearing timeframe	The proposed geotechnical works will be undertaken in January to March 2022. No significant timeframe constraint noted. It is expected that each test site will be completed within 2 to 3 days, with the program as a whole taking approximately 2 weeks	Suitable
Will contravene the requirements of a soil conservation notice issued under Part V of the SLC Act	Will not contravene the requirements of a soil conservation notice issued under Part V of the SLC Act	Suitable
Will or is likely to have a significant impact on matters of national environmental significance (MNES)	The Department of Agriculture, Water and Environment (DAWE) Protected Matters Search Tool (PMST) (DAWE 2021) considered the following MNES within a 5 km radius that could be impacted by the geotechnical works (Attachment A).	Suitable
	World Heritage Properties:	
	None	
	National Heritage Places:	
	None	
	Wetlands of International Importance (Ramsar):	
	None	
	Great Barrier Reef Marine Park:	
	None	
	Commonwealth Marine Area:	
	None	
	<u>Listed Threatened Ecological Communities:</u>	

spect Assessment		
None <u>Listed Threatened Species:</u> The identified listed threatene	ed species are shown in the table below.	
Scientific name	Common name	Status
Birds		
Calidris canutus	Red Knot	Endangered
Calidris ferruginea	Curlew Sandpiper	Critically Endangered
Charadrius leschenaultia	Greater Sand Plover	Vulnerable
Falco hypoleucos	Grey Falcon	Vulnerable
Limosa lapponica menzbieri	Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit	Critically Endangered
Numenius madagascariensis	Eastern Curlew, Far Eastern Curlew	Critically Endangered
Pezoporus occidentalis	Night Parrot	Endangered
Rostratula australis	Australian Painted Snipe	Endangered
Sternula nereis nereis	Australian Fairy Tern	Vulnerable
Mammals		
Dasyurus hallucatus	Northern Quoll	Endangered
Macroderma gigas	Ghost Bat	Vulnerable
Rhinonicteris aurantia (Pilbaro	a form) Pilbara Leaf-nosed Bat	Vulnerable
Reptiles	,	,

Assessment		
Liasis olivaceus barroni	Olive Python	Vulnerable
		-
Listed Migratory Species:	nu species are shown in the table below	
Scientific name	y species are shown in the table below. Common name	Status
Scientific flame	Common name	Status
Migratory marine birds		
Apus pacificus	Fork-tailed Swift	
Sterna dougallii	Roseate Tern	
Migratory terrestrial species		1
Hirundo rustica	Barn Swallow	
Motacilla cinerea	Grey Wagtail	
Motacilla flava	Yellow Wagtail	
Migratory wetlands species	1	1
Actitis hypoleucos	Common Sandpiper	
Calidris acuminata	Sharp-tailed Sandpiper	
Calidris canutus	Red Knot	Endangered
Calidris ferruginea	Curlew Sandpiper	Critically Endangered
Calidris melanotos	Pectoral Sandpiper	
Charadrius leschenaulrii	Greater Sand Plover	Vulnerable

Assessment			Suitability
Charadrius veredus	Oriental Plover		
Glareola maldivarum	Oriental Pratincole)		
Limosa lapponica	Bar-tailed Godwit		
Numenius madagascariensis	Eastern Curlew	Critically Endangered	
Tringa nebularia	Common Greenshank		
conducted in a systematic manner from Driving over vegetation will result in a term The tracks (tyre tread impacts) are linear spread should vegetation death occur. In considered negligible. The geotechnical test sites account for 1 each test site immediately after complete piles which are favoured by Northern Quarrounding the proposed works. In additional environments, therefore no significant in	one location to the next thus minimising the remporary (or nil) disturbance only, with rapid remporary (or nil) disturbance only, with rapid remporary (or nil) apport natural recolonism and to species identified as MNES from habitance. 3.62 ha of temporary clearing. Rehabilitation action (detailed in Section 1.6). Vehicle access and and Olive python. An abundance of alternation, no clearing will be undertaken in riparial mpact is expected to migratory bird species. But the property of the species of the property of the species of the property of the species.	number of movements. regeneration expected. zation from seed and root itat loss in these areas is ctivities will commence at id test sites will avoid rock ative habitat is present in or riverine ased on the small volume	
The geotechnical works are not in a man	rine environment.		Suitable
database (TPFL)/WA herbarium database	e provided to Horizon Power, did not identify all corridor. <i>NatureMap</i> database (DBCA 2007)	any threatened or priority	Suitable
	Charadrius veredus Glareola maldivarum Limosa lapponica Numenius madagascariensis Tringa nebularia 1.16 ha of disturbance is attributed to veconducted in a systematic manner from Driving over vegetation will result in a test tracks (tyre tread impacts) are lineated spread should vegetation death occur. It considered negligible. The geotechnical test sites account for 1 each test site immediately after complet piles which are favoured by Northern Question of temporary clearing and adopted man have a significant impact on MNES. The geotechnical works are not in a mathematical significant impact on MNES. The geotechnical works are not in a mathematical significant impact on displayed at a review of the Department of Biodivers database (TPFL)/WA herbarium database species within the proposed geotechnical	Charadrius veredus Glareola maldivarum Oriental Pratincole) Limosa lapponica Bar-tailed Godwit Numenius madagascariensis Eastern Curlew Tringa nebularia Common Greenshank 1.16 ha of disturbance is attributed to vehicle movements accessing the test sites. The conducted in a systematic manner from one location to the next thus minimising the r Driving over vegetation will result in a temporary (or nil) disturbance only, with rapid in The tracks (tyre tread impacts) are linear in nature which will support natural recoloni spread should vegetation death occur. Impact to species identified as MNES from habiconsidered negligible. The geotechnical test sites account for 1.62 ha of temporary clearing. Rehabilitation are each test site immediately after completion (detailed in Section 1.6). Vehicle access are piles which are favoured by Northern Quoll and Olive python. An abundance of alterns surrounding the proposed works. In addition, no clearing will be undertaken in riparial environments, therefore no significant impact is expected to migratory bird species. B of temporary clearing and adopted management measures to be implemented, the prhave a significant impact on MNES. The geotechnical works are not in a marine environment. Flora A review of the Department of Biodiversity, Conservation and Attractions (DBCA) three database (TPFL)/WA herbarium database provided to Horizon Power, did not identify species within the proposed geotechnical corridor. NatureMap database (DBCA) 2007)	Charadrius veredus Oriental Plover Glareola maldivarum Oriental Pratincole) Limosa lapponica Bar-tailed Godwit Numenius madagascariensis Eastern Curlew Critically Endangered Tringa nebularia Common Greenshank 1.16 ha of disturbance is attributed to vehicle movements accessing the test sites. The sampling will be conducted in a systematic manner from one location to the next thus minimising the number of movements. Driving over vegetation will result in a temporary (or nil) disturbance only, with rapid regeneration expected. The tracks (tyre tread impacts) are linear in nature which will support natural recolonization from seed and root spread should vegetation death occur. Impact to species identified as MNES from habitat loss in these areas is considered negligible. The geotechnical test sites account for 1.62 ha of temporary clearing. Rehabilitation activities will commence at each test site immediately after completion (detailed in Section 1.6). Vehicle access and test sites will avoid rock piles which are favoured by Northern Quoll and Olive python. An abundance of alternative habitat is present surrounding the proposed works. In addition, no clearing will be undertaken in riparian or riverine environments, therefore no significant impact is expected to migratory bird species. Based on the small volume of temporary clearing and adopted management measures to be implemented, the proposed clearing will not have a significant impact on MNES. The geotechnical works are not in a marine environment.

Aspect	Assessment	Suitability
	 Terminalia supranitifolia (Priority 3) small tree 830 m north of corridor located in rock piles 	
	 Rhynchosia bungarensis (Priority 4) 830 m north of corridor located in rock piles 	
	The PMST did not identify any protected or otherwise significant flora within 5 km of the proposed clearing area (DAWE 2021).	
	Horizon Power will select access routes and test pits locations that do not impact upon rock piles. Field personal will be provided with field identification sheets of the priority species to aid in the avoidance of priority species.	
	Fauna	
	NatureMap (DBCA 2007) identified 230 fauna species within 5 km of the proposed line	
	 Twenty species protected under international agreement 	
	Five 'rare or likely to become extinct' species	
	– Three Priority 4 species	
	The PMST identified thirteen listed threatened species and sixteen listed migratory species within a 5 km radius of proposed clearing activity (DAWE 2021).	
	As detailed in Table 4, significant fauna and flora species may occur in the DE. The clearing for the proposed geotechnical works is 1.63 ha with an additional 1.16 ha of potential incidental vehicle impacts. An abundance of alternative habitat is present surrounding the proposed works. The proposed clearing is small on a regional and local scale and temporary; therefore the potential impacts to significant flora and fauna are considered to be low to negligible.	
Will be within a highly cleared landscape or an area containing limited or restricted native vegetation types	The proposed clearing is not within an extensively cleared landscape and will require up to 3 ha of temporary clearing which is well below the 10 ha threshold for a permit. The two identified vegetation associations (587 and 157) have over 99% of their extent remaining in the Pilbara Bioregion and over 98% of their extent remaining in the City of Karratha (GoWA 2021b), expanded in Table 3.	Suitable
Is on land previously reserved as an environmental offset under the conditions of another approval under the EP Act	A review of the DWER Offsets Register indicates that the land is not reserved as an environmental offset under the conditions of an approval under the EP Act (GoWA 2021a).	Suitable

3.5. Avoidance and mitigation measures

The following avoidance and mitigation measures outline measures to avoid or reduce the impact to native vegetation during the geotechnical investigations.

3.5.1. Design measures

- The geotechnical locations and access tracks have been designed to avoid vegetation clearing where possible;
- The geotechnical pit works will be undertaken within a larger area, allowing for the choice of area that is least vegetated and avoidance of rocky outcrops, rock piles and riparian vegetation once crews are in the field;
- Sparsely vegetated test locations will be utilised where possible;
- No clearing in waterways is proposed; and
- The design has been altered to align with existing tracks to minimise the clearing of native vegetation.

3.5.2. Operational measures

- Heritage survey by the Traditional Owner group;
- Heritage monitors present during ground disturbing activities;
- A Weed Management Plan will be developed prior to the works and will be implemented to mitigate the risk of weeds entering the site or spreading;
- Prior to commencing work all vehicles and machinery will be washed down to prevent the spread of weeds into the work area. Vehicle tread will be clean upon entry at the start of each day;
- Pre-existing access tracks and cleared areas will be utilised where possible;
- A preference will be given to degraded, sparse or already cleared vegetation in proximity to access tracks when selecting test locations;
- No mechanical clearing of access tracks is permitted;
- Works will be carried out systematically to facilitate minimal re-run and compaction of access tracks;
- Field crew will be provided with priority/threatened flora and fauna species information sheets to allow onsite identification and active avoidance;
- Areas which contain known significant weeds will be avoided and not cleared. If weeds
 are encountered during works vehicle treads will be cleaned prior to entering new
 areas;
- Boreholes will not be left open over night to prevent potential impacts to fauna;
- If a test pit is left open overnight, the walls will be shaped to allow fauna egress; and
- Test pits will be inspected at commencement of the day.

3.5.3. Rehabilitation

- Walkover of the 25 m x 25 m area for significant weed species, priority or threatened flora and fauna, or preferential habitat (i.e. rock piles). If identified, location will be moved;
- The area will be demarcated;
- Stripping of topsoil will be undertaken slowly in a one-way direction, to allow fauna to move offsite if present;
- Topsoil will be stored in a designated location on site;
- Test pits will be reinstated with shallow soils at the surface;
- Recontouring and removal of compaction (e.g. ripping or scarification) of the soil will be undertaken if applicable;
- Topsoil respread over surface;
- Boreholes (where developed) will be cut at or below ground surface and capped and the cleared drill pad area will have topsoil reinstated to facilitate natural regrowth.
 Where vegetation is stripped it will be respread back over disturbed areas on completion of works; and
- Upon the conclusion of drilling each test, the same access track will be used to return to the main road.

4 Assessment against DWER Criterion

4.1 Criterion 1: The area proposed to be cleared is small relative to the total remaining vegetation

The proposed temporary clearing area includes 1.63 ha of actual clearing for test sites and 1.16 ha of incidental impact from driving, with a total temporary clearing footprint of up to 3 ha below the 10 ha threshold for requiring a permit. The proposed clearing is located in vegetation associations 589 and 157. These associations are widespread with over 98% remaining for both in the City of Karratha and over 99% in the State, shown in Table 3.

Table 3 pre-European vegetation association extents (GoWA 2021b)

Vegetat ion associat ion	Scale	Pre-European extent (ha)	Current extent (ha)	% Remaining	% of current extent in all DBCA managed land (proportion of current extent)
589	State: WA	807,698	802,713	99.38	1.89
	IBRA Bioregion: Pilbara	728,768	724,695	99.44	2.10
	IBRA Subregion: Roebourne (PILO4)	675,391	671,327	99.40	2.13
	LGA: City of Karratha	312,813	310,512	99.26	0.78

157	State: WA	502,728	499,311	99.32	18.12	
	IBRA Bioregion: Pilbara	199,832	198,409	99.29	5.80	
	IBRA Subregion: Roebourne (PILO4)	14,972	14,451	96.52	1.51	
	LGA: City of Karratha	73,039	71,600	98.03	0.31	

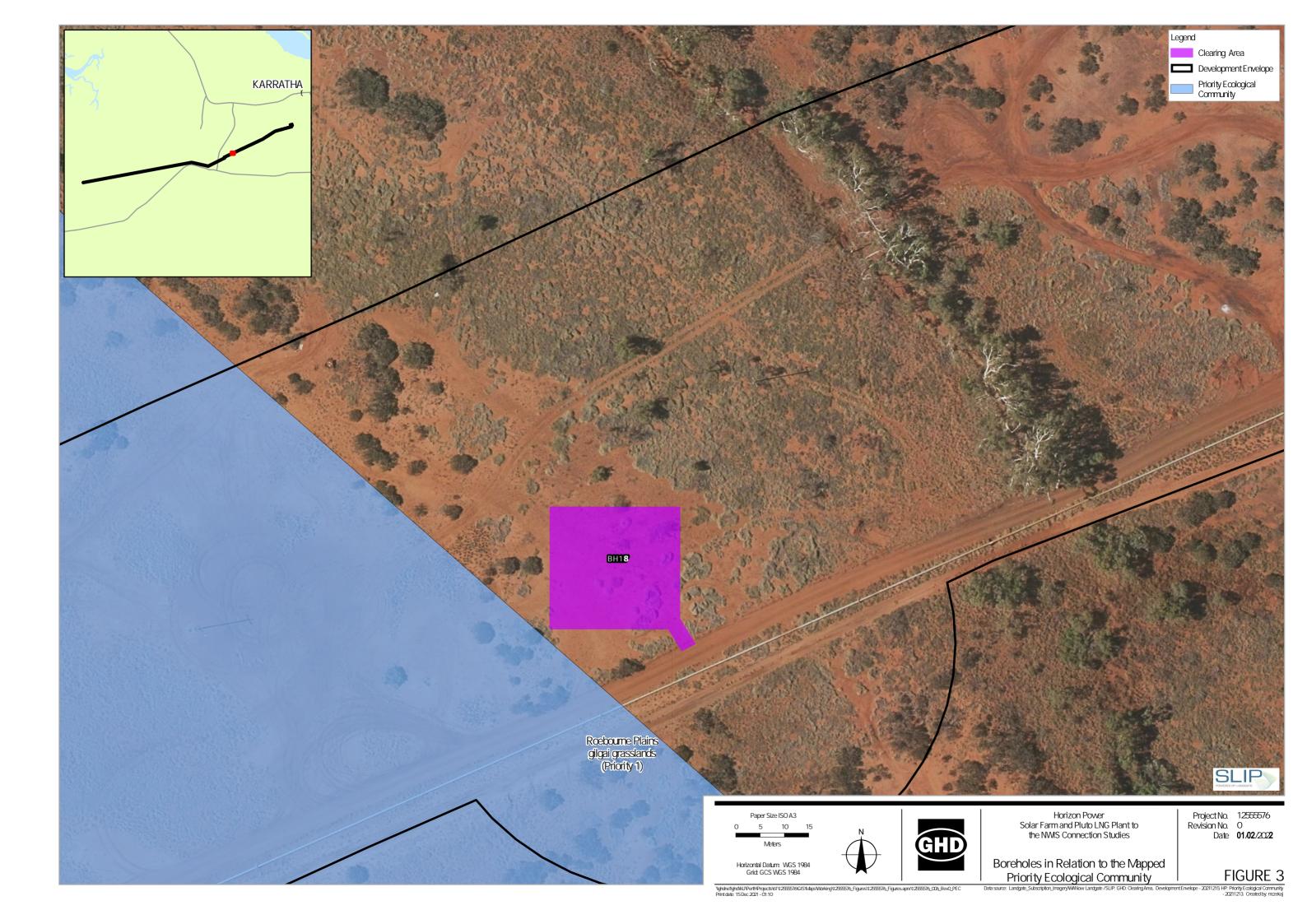
4.1 Criterion 2: There are no known or likely significant environmental values within the area

Table 4 Assessment of the proposed clearing area against the DWER environmental values

Environmental value	Assessment				
Vegetation condition	_ , ,	Ob) for the superseded transmission line found narily from Very Good to Degraded with pocket pletely Degraded/Cleared.			
	It is assumed that vegetation in the GC is cleared, and the temporary nature of the condition across the region is considered	· · · · · · · · · · · · · · · · · · ·			
Significant fauna	The DBCA threatened and priority fauna database provided to Horizon Power did not identify any fauna species within the development envelope. A data point for Dasyurus hallucatus was identified in the vicinity of BH13 however, metadata shows this the identification relates to Mt Regal south of the borehole.				
	Whilst no species are listed in the GC the species which may occur in the GC.	area EPBC Protected Matters search identified			
	1	and drainage lines will be avoided (driving and mmence on the completion of each test site.			
	Based on the small spatial and temporal r surrounding habitat, impacts to these spe				
	Name	Occurrence			
	Pilbara Olive Python (<i>Lialis olivaceus barroni</i>)	Visitor/opportunistic			
	Peregrine Falcon (Falco peregrinus)	Regular visitor/resident			
	Northern Short-tailed Mouse (<i>Leggadina</i> lakedowensis)	Resident			
	Lined Soil-crevice Skink (Notoscincus butleri)	Resident			
	Bridled Tern (Onychoprion anaethetus)	Opportunistic			
	Wood Sandpiper (<i>Tringa glareola</i>)	Seasonal/opportunistic			
	Common Greenshank (<i>Tringa nebularia</i>)	Seasonal/opportunistic			
	Oriental Pranticole (Charadrius veredus)	Seasonal/opportunistic			
	Oriental Plover (Charadrius veredus)	Seasonal/opportunistic			

Environmental value	Assessment			
Fauna habitat	Two habitat types v to occur in the GC:	vere recorded in surrounding survey work (GHD 2020a), and are likely		
	Vegetation type	Description		
	Tussock grasslands on cracking clays	The grasslands provide good foraging and breeding opportunities for grassland and cracking clay specialists such as small native ground mammals, ground dwelling birds and reptiles. Migratory species previously recorded in this habitat include the Oriental Plover (Charadrius veredus), Oriental Pratincole (Glareola maldivarum), and Bridled Tern (Onychoprion anaethetus).		
		This habitat type is typically utilised by conservation significant species Northern Short-tailed Mouse and Lined Crevice Skink in the wet season (December to April) and is of moderate value. This habitat type is likely to be present in the GC, given the small scale and temporary nature of the clearing, impacts are expected to be negligible.		
	Minor Drainage lines	Not applicable. No test sites are located within minor drainage lines. Driving over minor drainage lines will be avoided where possible.		
Significant ecological linkage	The proposed area	is not part of a significant ecological linkage.		
Mapped ecological community	No EPBC listed TECs were identified by the PMST within the vicinity of the proposed clearing area (DAWE 2021). Desktop surveys indicate the line is likely to intersect the Roebourne Plains gilgai grasslands PEC (Priority 1) and Horseflats land system of the Roebourne Plains PEC (Priority 3) (GHD 2020b). The GHD (2020b) survey conducted adjacent to the geotechnical clearing area did not map the Roebourne Plains PEC but did identify, the Horseflats land system PEC.			
	Given the abundang not considered to be area. The Threaten	extends from Cape Preston to Balla Balla, approximately 170 km. ce of the PEC, the minimal clearing required for geotechnical works is se significant. The Roebourne Plains PEC is restricted to the Karratha ed Ecological Communities data set was used to position boreholes bourne Plains PEC which is shown intersecting the line path (Figure 3).		
	No test sites are loc	cated within the mapped Roebourne Plains gilgai grasslands PEC.		
Significant flora	•	arch (DBCA 2007) identified the presence/likely presence of three cant species in the wider area.		
	_	Hamersley Station (Priority 3)		
	,	canitifolia (Priority 3)		
	-	garensis (Priority 4) ation significance were recorded during the GHD survey for Woodside		
	(GHD 2019). Two ir	ndividuals of <i>Oldenlandia sp Hamersley Station</i> species were identified nment (GHD 2020b). No other significant flora species were identified.		
	clearance walkover identified, then the	be provided with field identification sheets and will undertake a pre- rat geotechnical test sites prior to commencing. If the species is a location will be shifted to avoid the species. Avoidance of rocky piles the potential to encounter/disturb <i>Rhynchosia bungarensis</i> .		
Mapped wetland	The PMST did not id within 5 km of the	dentify any Ramsar Wetlands or Wetlands of National Importance GC (DAWE 2021).		

Environmental value	Assessment
Mapped watercourse	No mapped watercourses will be crossed during the clearing activities. No clearing in riparian vegetation or waterways is proposed for these works.
Water resources	The proposed clearing area is not located within a Public Drinking Water Source Area (GoWA 2021a).
	The current surface salinity of the GC is very low, with a low risk of future salinisation (GoWA 2021a). Water resources will not be impacted by the proposed works.
Land and soil quality	The proposed clearing area has a current low level of soil acidity and a moderate to low risk of Acid Sulphate Soils (GoWA 2021a). The proposed clearing area does not intersect any contaminated sites (GoWA 2021a). Land and soil quality is unlikely to be impacted by the proposed works.
Heritage-related values and native title matters	A search of the Aboriginal Heritage Inquiry System identifies no Registered heritage sites within the GC (GoWA 2021c). The proposed GC is adjacent to three Aboriginal heritage sites, all are artefact/scatter type ID 7509 and ID 17092. However, the GC does not intersect the known / mapped boundaries of these sites. Borehole 17 intersects site 7510 which has been assessed as 'Not a Site'.
	Additionally, approximately 50% of the proposed clearing areas have been part of a past Heritage survey. A heritage survey will be undertaken of the area prior to the commencement of work. No clearing or ground disturbance will occur at Aboriginal heritage sites or areas of significance. Heritage Monitors from the Traditional Owner group will be present during ground disturbing activities.



4.1 Criterion 3: The state of scientific knowledge of native vegetation within the region is adequate

Regional

At a regional level, there is a good scientific knowledge of the native vegetation in the Pilbara. The Pilbara Region Biological Survey (GoWA 2017), active from 2002-2013, was undertaken to provide a better understanding of the biodiversity of the region. Over 800 sample sites were surveyed, to represent the diversity of the area. The results included:

- the collection of more than 80,000 plant vouchers representing about 1,100 species, of which at least 8 are new to science and 25 new to the Pilbara
- the documentation of 103 weeds in the Pilbara of which up to 29 are significant habitat modifying species.

The Pilbara Biological Survey Database documents all terrestrial biological surveys in the Pilbara. At the time of writing, there are 789 reports that have been identified (GoWA 2021e).

An inventory and condition survey of the Pilbara Region was undertaken by the WA Department of Agriculture and Food between 1995 and 1999 (van Vreeswyk et al. 2004). The report identified and described the condition of soils, landforms, vegetation, habitat, ecosystems, and Declared plants and animals. It also assessed the impact of pastoralism and made land management recommendations. The large number of surveys in the Pilbara means that the scientific knowledge of the region is well developed. It is highly unlikely that this proposal would have and impacts to the native vegetation that is not already known to science.

Local

Karratha is a well-developed area due to the presence of mining and port facilities. There have been several flora and fauna surveys undertaken by GHD in the vicinity of the GC, as detailed in Section 3.2.

In addition to the GHD surveys, the MSIA was subject to a flora and vegetation survey in 1994 (Mattiske 1994). More recently, the City of Karratha Local Biodiversity Strategy Field Survey of 2019 (CoK 2019) surveyed across nine areas for a total of sixty sites. Two of the areas surveyed (24 sites) overlap with the proposed GC. The survey found three PECs and a potential fourth identified. A fifth remnant PEC was recorded but in Degraded condition.

During the field surveys forty-seven introduced species were found, six of which are listed as either Declared Pests on the West Australian Organism List (WAOL) or as Weeds of National Significance (WONS). The widescale nature of the survey means there is good knowledge on the native vegetation in the local area.

As detailed in Section 3.2, flora and fauna surveys were undertaken for the proposed Woodside Hybrid Renewable Power Plant (GHD 2019, GHD 2020a) and a previous alignment for the transmission line from Maitland to Karratha (GHD 2020b). The southern portion of the survey is adjacent to the proposed clearing for Horizon's geotechnical works.

The biodiversity of the local area has been well surveyed, as such the state of the scientific knowledge of native vegetation is adequate, making it unlikely that the proposed clearing would have significant unknown impacts.

Project Area

The proximity of the previous GHD flora and vegetation survey (GHD 2020b) to the new proposed alignment suggests the vegetation identified is likely to be representative of the vegetation to be cleared for the geotechnical works. A total of 9.3 ha of the Development Corridor and 0.62 ha (15.7%) of the proposed clearing overlaps with the previous GHD survey (GHD 2020b).

4.2 Criterion 4: Conditions will not be required to manage environmental impacts

Avoidance and mitigation measures have been applied to the project to limit the potential impacts of the proposed clearing. Given the abundance of vegetation surrounding the proposed clearing, and the small scale of clearing, it is considered likely that clearing can be undertaken without any conditions being applied.

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Attachment A: Desktop Searches



NatureMap 5k fauna Species Report

Created By Guest user on 15/11/2021

Kingdom Animalia

Current Names Only Yes

Core Datasets Only Yes

Method 'By Line'

Vertices 20° 45′ 58″ S,116° 49′ 12″ E 20° 47′ 24″ S,116° 45′ 36″ E 20° 48′ 00″ S,116° 40′ 12″ E

Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	202	1637
Priority 4	3	16
Protected under international agreement	20	80
Rare or likely to become extinct	5	53
TOTAL	230	1786

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Rare or like	ly to bed	come extinct			
1.	24784	Calidris ferruginea (Curlew Sandpiper)		T	
2.	24790	Calidris tenuirostris (Great Knot)		Ţ	
3.	25575	Charadrius leschenaultii (Greater Sand Plover)		T	
4.	24093	Dasyurus hallucatus (Northern Quoll)		Ţ	
5.	24798	Numenius madagascariensis (Eastern Curlew)		Т	
Protected u	nder inte	ernational agreement			
6.	41323	Actitis hypoleucos (Common Sandpiper)		IA	
7.	25554	Apus pacificus (Fork-tailed Swift, Pacific Swift)		IA	
8.	25736	Arenaria interpres (Ruddy Turnstone)		IA	
9.	24779	Calidris acuminata (Sharp-tailed Sandpiper)		IA	
10.	25738	Calidris canutus (Red Knot, knot)		IA	
11.	24788	Calidris ruficollis (Red-necked Stint)		IA	
12.	24789	Calidris subminuta (Long-toed Stint)		IA	
13.	47954	Gelochelidon nilotica (Gull-billed Tern)		IA	
14.	24481	Glareola maldivarum (Oriental Pratincole)		IA	
15.	25630	Hirundo rustica (Barn Swallow)		IA	
16.	48587	Hydroprogne caspia (Caspian Tern)		IA	
17.	30932	Limosa lapponica (Bar-tailed Godwit)		IA	
18.	24799	Numenius minutus (Little Curlew, Little Whimbrel)		IA	
19.	25742	Numenius phaeopus (Whimbrel)		IA	
20.	48591	Pandion cristatus (Osprey, Eastern Osprey)		IA	
21.		Pluvialis fulva (Pacific Golden Plover)		IA	
22.		Thalasseus bergii (Crested Tern)		IA	
23.	24806	Tringa glareola (Wood Sandpiper)		IA	
24.		Tringa nebularia (Common Greenshank, greenshank)		IA	
25.		Tringa stagnatilis (Marsh Sandpiper, little greenshank)		IA	
Priority 4					
26.	24217	Leggadina lakedownensis (Northern Short-tailed Mouse, Lakeland Downs Mouse,		P4	
07	05400	Kerakenga)			
27. 28.		Notoscincus butleri (lined soil-crevice skink (Dampier)) Tringa brevipes (Grey-tailed Tattler)		P4	
				P4	
Non-conser					
29.		Accipiter cirrocephalus (Collared Sparrowhawk)			
30.		Acrocephalus australis (Australian Reed Warbler)			
31.	30833	Amphibolurus longirostris (Long-nosed Dragon)			
32.		Aname mellosa			
33.	24312	Anas gracilis (Grey Teal)			
34.	24316	Anas superciliosa (Pacific Black Duck)			
35.	47414	Anhinga novaehollandiae (Australasian Darter)			
36.	25318	Antaresia perthensis (Pygmy Python)			

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
38.	24285	Aquila audax (Wedge-tailed Eagle)			
39.	25559	Ardea intermedia (Intermediate Egret)			
40.	41324	Ardea modesta (great egret, white egret)			
41.	24341	Ardea pacifica (White-necked Heron)			
42.	24610	Ardeotis australis (Australian Bustard)			
43.	25566	Artamus cinereus (Black-faced Woodswallow)			
44.		Artamus leucorynchus (White-breasted Woodswallow)			
45.	24357	Artamus superciliosus (White-browed Woodswallow)			
46.		Arthrorhabdus paucispinus			
47.		Aspidites ramsayi (Woma)			
48.		Aythya australis (Hardhead)			
49.		Cacatua roseicapilla (Galah)			
50. 51.		Cacatua sanguinea (Little Corella)			
52.	42307	Cacomantis pallidus (Pallid Cuckoo)			
53.		Carenum subplanatum			
55. 54.		Carenum subplanatum Carenum venustum			
55.		Catadromus lacordairei			
56.	25600	Centropus phasianinus (Pheasant Coucal)			
57.		Charadrius ruficapillus (Red-capped Plover)			
58.		Chenonetta jubata (Australian Wood Duck, Wood Duck)			
59.		Chlaenius australis			
60.		Chroicocephalus novaehollandiae			
61.	24431	Chrysococcyx basalis (Horsfield's Bronze Cuckoo)			
62.		Circus approximans (Swamp Harrier)			
63.		Circus assimilis (Spotted Harrier)			
64.		Cladorhynchus leucocephalus (Banded Stilt)			
65.		Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
66.	24416	Corvus bennetti (Little Crow)			
67.	25593	Corvus orru (Torresian Crow)			
68.	25701	Coturnix ypsilophora (Brown Quail)			
69.	24420	Cracticus nigrogularis (Pied Butcherbird)			
70.	25595	Cracticus tibicen (Australian Magpie)			
71.		Cryptoerithus halli			
72.		Cryptoerithus occultus			
73.	25458	Ctenophorus caudicinctus (Ring-tailed Dragon)			
74.	24865	Ctenophorus caudicinctus subsp. caudicinctus (Ring-tailed Dragon)			
75.	24882	Ctenophorus nuchalis (Central Netted Dragon)			
76.	24886	Ctenophorus reticulatus (Western Netted Dragon)			
77.	25036	Ctenotus duricola			
78.		Ctenotus grandis			
79.		Ctenotus grandis subsp. titan			
80.		Ctenotus helenae			
81.		Ctenotus pantherinus (Leopard Ctenotus)			
82.		Ctenotus pantherinus subsp. ocellifer (Leopard Ctenotus)			
83.		Ctenotus saxatilis (Rock Ctenotus)			
84.		Ctenotus schomburgkii			
85. 86.		Ctenotus serventyi Cyclodomorphus melanops subsp. melanops (Slender Blue-tongue)			
87.		Cyclorana maini (Sheep Frog)			
88.		Cygnus atratus (Black Swan)			
89.		Dasykaluta rosamondae (Little Red Kaluta)			
90.		Delma nasuta			
91.		Delma pax			
92.		Delma tincta			
93.		Demansia rufescens (Rufous Whipsnake)			
94.		Dendrocygna eytoni (Plumed Whistling Duck)			
95.	25607	Dicaeum hirundinaceum (Mistletoebird)			
96.	24926	Diplodactylus conspicillatus (Fat-tailed Gecko)			
	41404	Diplodactylus galaxias (Northern Pilbara Beak-faced Gecko)			
97.		Diplodactylus mitchelli			
97. 98.	24937				
	24937	Egretta garzetta			
98.	24937	Egretta garzetta Egretta novaehollandiae			
98. 99.	24937				
98. 99. 100.		Egretta novaehollandiae			
98. 99. 100. 101.	47937	Egretta novaehollandiae Elanus axillaris			
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98. 99. 100. 101. 102. 103. 104.	47937 24631 24568	Egretta novaehollandiae Elanus axillaris Elseyornis melanops (Black-fronted Dotterel) Emblema pictum (Painted Finch) Eolophus roseicapillus Epthianura aurifrons (Orange Chat)			
98. 99. 100. 101. 102. 103.	47937 24631 24568 24570	Egretta novaehollandiae Elanus axillaris Elseyornis melanops (Black-fronted Dotterel) Emblema pictum (Painted Finch) Eolophus roseicapillus			

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum







		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
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120. 42314 Govicello viruscours (Singraph Hostysealer) 121. 24696 Golyay compgate	118.	25301	Furina ornata (Moon Snake)			
121. 2495 Gelyra punciale	119.	25730	Gallirallus philippensis (Buff-banded Rail)			
12.2. 24.09.0 Geopate Automoting (Cathorout Dove) 12.4. 24.00 Geopate Automoting (Cathorout Dove) 12.5. 25.05 Geopate Automoting (Cathorout Dove) 12.6. 24.04.0 Geopate (Cathorout Cathorout Cathoro	120.	42314	Gavicalis virescens (Singing Honeyeater)			
124. 2440 Goopole sumeria ((Catendro Drove)						
124. 2440° Geopole humanis (Samb Dave) 126. 2440 Geophary plantines (Sprike Pigens) 127. Geoophary Environ Geophary 128. 2530 Geophary Environ Geophary 129. 2440 Geolia Geophary Environ Geophary 120. 25627 Hemmstepus (Inigrosus (Geophary Chemistry) 131. 25427 Hemmstepus (Inigrosus (Geophary Chemistry) 132. 1443 Hemmstepus (Inigrosus (Geophary Chemistry) 133. 25241 Helabourt (Inigrosus (Geophary Chemistry) 134. 25431 Helabourt (Inigrosus (Geophary Chemistry) 136. 25241 Helabourt (Inigrosus (Geophary Chemistry) 137. 27582 Helabourt (Inigrosus (Geophary Chemistry) 138. 25734 Hemaniporus (Inigrosus Chemistry) 138. 25734 Hemaniporus (Inigrosus Chemistry) 140. Hegyen chapters 141. Langon chapters 142. 24878 Lalage receive (Virthie-Weiger Teller) 143. Langona (Inigrosus Chemistry) 144. Langona (Inigrosus Chemistry) 145. Langona (Inigrosus Chemistry) 146. 300022 Lantils (Inigrosus Chemistry) 147.						
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130. 25627 Hennatopus Glogoposis (Poed Oystercatcher)		25530				
131. 24487 Homenstrus Inorginoris (Pied Oystercatcher)	129.	24443	Grallina cyanoleuca (Magpie-lark)			
132	130.	25627	Haematopus fuliginosus (Sooty Oystercatcher)			
133. 24203 Hallacetas kiucogostar (White ballied See Esple) 134. 2251 Hallacetar indus (Bahariny Kho) 135. 2481 Hallacetar indus (Bahariny Kho) 136. 2481 Hallacetar indus (Bahariny Kho) 137. 4785 Hamachar morphonism (Biroca Socio) 138. 25734 Hamachar morphonism (Biroca Socio) 139. 2574 Hamachar morphonism (Biroca Socio) 140. Hogara crispipes 151. Stopcodia Irababi 141. Stopcodia Irababi 142. 24367 Lalage fiction (White-winged Triller) 143. Lampona ampinina 144. Lampona ofininata 145. Supposed introbabi 146. 30028 Larista clara 147. 25155 Larista mueller 148. 30028 Larista clara 147. 25155 Larista mueller 148. 25661 Lichreira indistincta (Brom Honeyester) 150. 30033 Liucosium serocabrylim 151. Lychas sp. 2 152. 24135 Macropus robustus (Euro, Biggada) 153. 24135 Macropus robustus (Euro, Biggada) 154. 24436 Macropus robustus (Euro, Biggada) 155. 25551 Malurus kaucopiana (White-winged Fairy-warn) 156. 2552 Malurus kaucopiana (White-winged Fairy-warn) 157. 24588 Macropus robustus (Euro, Biggada) 158. Mageocophaia greyana 169. 25144 Maronis midigila (Yolion-karread Minar) 159. 2554 Malurus kaucopiana (White-winged Fairy-warn) 160. 2514 Malurus kaucopiana (White-winged Fairy-warn) 161. 2548 Macropus mobilistis (Broiging Filion-warn) 162. Mageocophaia greyana 163. 2549 Maronis midigila (Yolion-karread Minar) 164. 2555 Malurus kaucopiana (White-winged Fairy-warn) 165. 2550 Malurus kaucopiana (White-winged Fairy-warn) 166. 2513 Moronis midicaudo subsp. exquisita 167. 2568 Maronis ariticaudo subsp. exquisita 168. Nephia dudis 169. 2409 Maronis ariticaudo subsp. exquisita 169. 2409 Moronis midicaudo subsp. exquisita 169. 2409 Moronis midicaudo subsp. exquisita 160. 2514 Maronis ariticaudo subsp. exquisita 161. 2547 Moronis midicaudo subsp. exquisita 162. Moronis ariticaudo subsp. exquisita 163. 2409 Moronis midicaudo subsp. exquisita 164. 2549 Moronis midicaudo subsp. exquisita 165. 2541 Maronis subsp. colonisio (Created Pigeoro) 171. 25197 Moronis curicaudo (Created Pigeoro) 172. Orytos volobilis	131.	24487	Haematopus longirostris (Pied Oystercatcher)			
1944	132.		Halacaridae sp.			
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643						
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NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
178.	25680	Pachycephala rufiventris (Rufous Whistler)			
179.	24648	Pelecanus conspicillatus (Australian Pelican)			
180.	48060	Petrochelidon ariel (Fairy Martin)			
181.	48061	Petrochelidon nigricans (Tree Martin)			
182.	24667	Phalacrocorax sulcirostris (Little Black Cormorant)			
183.	25699	Phalacrocorax varius (Pied Cormorant)			
184.		Phreodrilid with dissimilar ventral chaetae			
185.		Phreodrilid with similar ventral chaetae			
186.		Pilbarascutigera incola			
187.	25703	Podargus strigoides (Tawny Frogmouth)			
188.	25510	Pogona minor (Dwarf Bearded Dragon)			
189.	24907	Pogona minor subsp. minor (Dwarf Bearded Dragon)			
190.	24681	Poliocephalus poliocephalus (Hoary-headed Grebe)			
191.		Protonibea diacanthus			
192.	25261	Pseudechis australis (Mulga Snake)			
193.	24234	Pseudomys delicatulus (Delicate Mouse)			
194.	24237	Pseudomys hermannsburgensis (Sandy Inland Mouse)			
195.	42416	Pseudonaja mengdeni (Western Brown Snake)			
196.	25263	Pseudonaja modesta (Ringed Brown Snake)			
197.	42344	Purnella albifrons (White-fronted Honeyeater)			
198.	24245	Rattus rattus (Black Rat)	Υ		
199.	24776	Recurvirostra novaehollandiae (Red-necked Avocet)			
200.	25614	Rhipidura leucophrys (Willie Wagtail)			
201.		Scolopendra laeta			
202.		Scolopendra morsitans			
203.		Simaetha tenuior			
204.	24116	Sminthopsis macroura (Stripe-faced Dunnart)			
205.		Sternula nereis (Fairy Tern)			
206.		Stictonetta naevosa (Freckled Duck)			
207.		Streptopelia chinensis (Spotted Turtle-Dove)	Υ		
208.		Strophurus ciliaris subsp. aberrans			
209.		Strophurus elderi			
210.		Supunna picta			
211.	25269	Suta fasciata (Rosen's Snake)			
212.		Suta punctata (Spotted Snake)			
213.		Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)			
214.		Tachyglossus aculeatus (Short-beaked Echidna)			
215.		Taeniopygia guttata (Zebra Finch)			
216.		Threskiornis spinicollis (Straw-necked Ibis)			
217.		Todiramphus pyrrhopygius (Red-backed Kingfisher)			
217.		Todiramphus sanctus (Sacred Kingfisher)			
219.		Tribonyx ventralis (Black-tailed Native-hen)			
220.	40141				
221.	2/051	Trichocyclus nigropunctatus Turnix velox (Little Button-quail)			
		. ,			
222.		Tympanocryptis cephalus (Pebble Dragon) Vanellus tricolor (Banded Lapwing)			
223. 224.		Varanus brevicauda (Short-tailed Pygmy Monitor)			
	23210	Wesmaldra nixaut			
225.					
226.		Wydundra kennedy Mydundra piyaut			V
227.		Wydundra nixaut Zenederus erhigulatus			Υ
228.	24057	Zenodorus orbiculatus Zentorona lutaus (Valley White eye)			
229.		Zosterops luteus (Yellow White-eye)			
230.	∠4 ∠ 48	Zyzomys argurus (Common Rock-rat)			

Conservation Codes
T - Rare or likely to become extinct
X - Presumed extinct
To received under international agreement
- Protected under international agreement
- Protected under international agreement
- Priority
2 - Priority
3 - Priority
5 - Priority
5 - Priority
5





¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.



NatureMap 5k Flora Species Report

Created By Guest user on 15/11/2021

Kingdom Plantae

Current Names Only Yes

Core Datasets Only Yes

Method 'By Line

Vertices 20° 45′ 58″ S,116° 49′ 12″ E 20° 47′ 24″ S,116° 45′ 36″ E 20° 48′ 00″ S,116° 40′ 12″ E

Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	409	1082
Priority 3	2	3
Priority 4	1	1
TOTAL	412	1086

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Priority 3					
1.	19640	Oldenlandia sp. Hamersley Station (A.A. Mitchell PRP 1479)		P3	
2.	5313	Terminalia supranitifolia		P3	
Dui a nitu . 4					
Priority 4	20062	Rhynchosia bungarensis		P4	
				P4	
Non-conse					
4.		Abutilon amplum			
5.		Abutilon fraseri (Lantern Bush)			
6.		Abutilon fraseri subsp. fraseri			
7.		Abutilon lepidum			
8.		Abutilon malvifolium (Bastard Marshmallow)			
9.		Abutilon oxycarpum (Flannel Weed)			
10.		Abutilon oxycarpum subsp. Prostrate (A.A. Mitchell PRP 1266)			
11.	3209	Acacia ampliceps			
12.	44586	Acacia ampliceps x sclerosperma subsp. sclerosperma			
13.	3214	Acacia ancistrocarpa (Fitzroy Wattle)			
14.	3223	Acacia arida			
15.	3241	Acacia bivenosa			
16.	44588	Acacia bivenosa x sclerosperma subsp. sclerosperma			
17.	17013	Acacia colei var. colei			
18.	13500	Acacia coriacea subsp. coriacea			
19.	13502	Acacia coriacea subsp. pendens			
20.	16174	Acacia elachantha			
21.	12673	Acacia glaucocaesia			
22.	3356	Acacia gregorii (Gregory's Wattle)			
23.		Acacia inaequilatera (Baderi)			
24.		Acacia maitlandii (Maitland's Wattle)			
25.		Acacia pyrifolia (Ranji Bush, Kandji)			
26.		Acacia pyrifolia var. pyrifolia			
27.		Acacia sclerosperma subsp. sclerosperma			
28.		Acacia sericophylla			
29.		Acacia sphaerostachya			
30.		Acacia spilatrostacinya Acacia stellaticeps			
31.		Acacia synchronicia			
31.		Acacia synchronicia Acacia tenuissima			
32.					
		Acacia trachycarpa (Minni Ritchi, Balgali)			
34.		Acacia xiphophylla			
35.		Adriana tomentosa var. tomentosa			
36.		Aerva javanica (Kapok Bush)	Y		
37.		Aeschynomene indica (Budda Pea)			
38.		Alectryon oleifolius			
39.		Alternanthera nodiflora (Common Joyweed)			
40.	17147	Alysicarpus muelleri			
			(663)		

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.

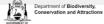






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NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.







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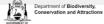






	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
181.	10982	Goodenia stobbsiana			
182.		Gossypium australe (Native Cotton)			
183.		Grevillea pyramidalis (Caustic Bush, Tjungu)			
184. 185.		Grevillea pyramidalis subsp. leucadendron Grevillea wickhamii subsp. aprica			
186.		Hakea lorea (Witinti)			
187.		Hakea lorea subsp. lorea			
188.	6704	Heliotropium conocarpum			
189.		Heliotropium cunninghamii			
190.		Heliotropium curassavicum (Smooth Heliotrope)			
191. 192.		Heliotropium heteranthum			
192.		Heliotropium inexplicitum Heliotropium tanythrix			
194.		Heliotropium tenuifolium (Mamukata)			
195.		Hibiscus austrinus var. austrinus			
196.	4923	Hibiscus brachysiphonius			
197.		Hibiscus coatesii			
198.		Hibiscus sturtii (Sturt's Hibiscus)			
199. 200.		Hybanthus aurantiacus Indigastrum parviflorum			
200.		Indigofera colutea (Sticky Indigo)			
202.		Indigofera linifolia			
203.		Indigofera linnaei (Birdsville Indigo)			
204.	3982	Indigofera monophylla			
205.		Indigofera trita			
206.		Ipomoea coptica			
207. 208.		Ipomoea costata (Rock Morning Glory, Kanti) Ipomoea lonchophylla (Cowvine)			
209.		Ipomoea muelleri (Poison Morning Glory, Yumbu)			
210.		Ipomoea pes-caprae			
211.	6637	Ipomoea polymorpha			
212.	458	Iseilema dolichotrichum			
213.		Iseilema eremaeum			
214.		Iseilema vaginiflorum (Red Flinders Grass)			
215. 216.		Ixiochlamys cuneifolia Jasminum didymum subsp. lineare (Desert Jasmine)			
217.		Lactuca saligna (Wild Lettuce, Willow-leaf Lettuce)	Υ		
218.		Lawrencia viridigrisea			
219.	3035	Lepidium pedicellosum			
220.		Lepidium pholidogynum			
221.		Lotus australis (Austral Trefoil)			
222. 223.		Lotus cruentus (Redflower Lotus) Maireana georgei (Satiny Bluebush)			
224.		Maireana planifolia (Low Bluebush)			
225.		Maireana tomentosa subsp. tomentosa			
226.	4962	Malvastrum americanum (Spiked Malvastrum)	Υ		
227.	5051	Melhania oblongifolia			
228.		Minuria integerrima (Smooth Minuria)			
229.		Minuria leptophylla (Minnie Daisy)			
230. 231.		Muellerolimon salicorniaceum Myoporum montanum (Native Myrtle)			
231.		Neobassia astrocarpa			
233.		Neptunia dimorphantha (Sensitive Plant)			
234.	6971	Nicotiana benthamiana (Tjuntiwari)			
235.		Nicotiana occidentalis (Native Tobacco)			
236.		Nicotiana occidentalis subsp. obliqua			
237.		Nicotiana occidentalis subsp. occidentalis			
238. 239.		Notoleptopus decaisnei Notoleptopus decaisnei var. decaisnei			
240.		Oldenlandia crouchiana			
241.		Operculina aequisepala			
242.	503	Panicum decompositum (Native Millet, Kaltu-kaltu)			
243.		Panicum effusum (Hairy Panic Grass)			
244.		Panicum laevinode			
245.		Paraneurachne muelleri (Northern Mulga Grass)			
246.		Paspalidium basicladum			
247	518	Paspalidium ciementii (Ciements Paspalidium)			
247. 248.		Paspalidium clementii (Clements Paspalidium) Paspalidium rarum (Rare Paspalidium)			
	523	Paspalidium ciementii (Ciements Paspalidium) Paspalidium rarum (Rare Paspalidium) Paspalidium tabulatum			

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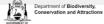






	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
251.		Petalostylis labicheoides (Slender Petalostylis)			
252. 253.		Phyllanthus baccatus			
253. 254.		Phyllanthus erwinii Phyllanthus maderaspatensis			
255.		Pimelea ammocharis			
256.		Pluchea ferdinandi-muelleri			
257.	43944	Pluchea longiseta			
258.	8168	Pluchea rubelliflora			
259.		Pluchea tetranthera			
260. 261.		Polycarpaea holtzei Polycarpaea longiflora			
261.		Polygala glaucifolia			
263.		Polygala isingii			
264.		Polymeria ambigua (Morning Glory)			
265.	6655	Polymeria calycina			
266.	17513	Polymeria lanata			
267.		Polymeria sp.			
268.		Portulaca conspicua			
269. 270.		Portulaca cyclophylla Portulaca decipiens			
271.		Portulaca oleracea (Purslane, Wakati)			
272.		Pterocaulon sphacelatum (Apple Bush, Fruit Salad Plant)			
273.		Pterocaulon sphaeranthoides			
274.	2690	Ptilotus aervoides			
275.		Ptilotus astrolasius			
276.		Ptilotus auriculifolius			
277.		Ptilotus axillaris (Mat Mulla Mulla)			
278. 279.		Ptilotus calostachyus (Weeping Mulla Mulla) Ptilotus carinatus			
280.		Ptilotus clementii (Tassel Top)			
281.		Ptilotus divaricatus (Climbing Mulla Mulla)			
282.		Ptilotus exaltatus (Tall Mulla Mulla)			
283.	2725	Ptilotus fusiformis			
284.		Ptilotus gomphrenoides			
285.		Ptilotus helipteroides (Hairy Mulla Mulla)			
286. 287.		Ptilotus murrayi Ptilotus nobilis (Tall Mulla Mulla)			
288.		Ptilotus obovatus (Cotton Bush)			
289.		Ptilotus polystachyus (Prince of Wales Feather)			
290.		Ptilotus villosiflorus			
291.	2582	Rhagodia eremaea (Thorny Saltbush)			
292.		Rhagodia preissii			
293.		Rhizophora stylosa (Spotted-leaved Red Mangrove)			
294. 295.		Rhodanthe floribunda Rhodanthe humboldtiana			
296.		Rhynchosia australis (Rhynchosia)			
297.		Rhynchosia minima (Rhynchosia)			
298.	48900	Roepera retivalvis			
299.	30434	Salsola australis			
300.		Santalum lanceolatum (Northern Sandalwood, Yarnguli)			
301.		Scaevola cunninghamii			
302. 303.		Scaevola spinescens (Currant Bush, Maroon) Schenkia australis			
304.		Schenkia clementii			
305.		Sclerolaena costata			
306.		Sclerolaena densiflora			
307.	8877	Sclerolaena gardneri			
308.		Sclerolaena uniflora (Two-spined Saltbush)			
309.		Senna artemisioides subsp. helmsii			
310. 311.		Senna artemisioides subsp. oligophylla Senna ferraria			
311. 312.		Senna ferraria Senna glutinosa			
313.		Senna glutinosa subsp. chatelainiana			
314.		Senna glutinosa subsp. glutinosa			
315.		Senna glutinosa subsp. pruinosa			
316.		Senna glutinosa subsp. x luerssenii			
317.		Senna hamersleyensis			
318.		Senna sympaii			
319. 320.		Senna symonii Senna venusta			
020.	12019		Department o	f Biodiversity,	WESTERN

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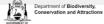






	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
321.		Sesbania cannabina (Sesbania Pea)			
322.	606	Setaria dielsii (Diels' Pigeon Grass)			
323.		Setaria verticillata (Whorled Pigeon Grass)	Υ		
324.		Sida arsiniata			
325.		Sida cardiophylla			
326.		Sida echinocarpa			
327. 328.		Sida fibulifera (Silver Sida) Sida rohlenae			
329.		Sida sp. Pilbara (A.A. Mitchell PRP 1543)			
330.		Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)			
331.		Sida spinosa (Spiny Sida)			
332.		Solanum cleistogamum			
333.	7002	Solanum diversiflorum			
334.	7007	Solanum esuriale (Quena)			
335.	7014	Solanum horridum			
336.		Solanum lasiophyllum (Flannel Bush, Mindjulu)			
337.		Solanum phlomoides			
338.		Sorghum plumosum var. plumosum			
339.		Sorghum timorense			
340. 341.		Spinifex longifolius (Beach Spinifex) Sporobolus australasicus (Fairy Grass)			
341.		Sporobolus australasicus (r airy Grass) Sporobolus virginicus (Marine Couch)			
343.		Stackhousia intermedia			
344.		Stackhousia muricata subsp. annual (W.R. Barker 2172)			
345.		Stemodia kingii			
346.	8234	Streptoglossa adscendens			
347.	8235	Streptoglossa bubakii			
348.	8236	Streptoglossa cylindriceps			
349.		Streptoglossa decurrens			
350.		Streptoglossa liatroides			
351.		Streptoglossa odora			
352.		Streptoglossa tenuiflora			
353. 354.		Stylobasium spathulatum (Pebble Bush) Suaeda arbusculoides			
355.		Surreya diandra			
356.		Swainsona formosa			
357.		Swainsona kingii			
358.	4233	Swainsona leeana			
359.	4234	Swainsona maccullochiana (Ashburton Pea)			
360.	4242	Swainsona pterostylis			
361.		Synaptantha tillaeacea			
362.		Tecticornia auriculata			
363.		Tecticornia halocnemoides (Shrubby Samphire)			
364. 365.		Tecticornia halocnemoides subsp. longispicata Tecticornia halocnemoides subsp. tenuis			
366.		Tecticornia indica			
367.		Tecticornia indica subsp. bidens			
368.		Tecticornia indica subsp. leiostachya (Samphire)			
369.		Tecticornia pergranulata subsp. elongata			
370.	31618	Tecticornia pruinosa			
371.	4263	Tephrosia clementii			
372.		Tephrosia densa			
373.		Tephrosia rosea var. clementii			
374.		Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)			
375.		Tephrosia sp. D Kimberley Flora (R.D. Royce 1848) Tephrosia sp. NIW Franceson (S. van Legywan et al. RRS 0356)			
376. 377.		Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356) Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)			
377.		Tephrosia supina			
379.		Terminalia circumalata			
380.		Terminalia platyphylla (Wild Plum, Durin)			
381.		Themeda triandra			
382.	2644	Threlkeldia diffusa (Coast Bonefruit)			
383.	2942	Tinospora smilacina (Snakevine, Oondala)			
384.	6278	Trachymene oleracea			
385.		Trachymene oleracea subsp. oleracea			
386.		Trianthema triquetrum			
387.		Trianthema turgidifolium			
388. 389.		Tribulus cistoides Tribulus hirsutus			
389. 390.		Tribulus nacrocarpus			
555.	7013		Department of	f Biodiversity,	WESTERN

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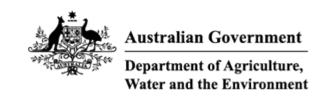


	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
391.	4380	Tribulus occidentalis (Perennial Caltrop)			
392.	4381	Tribulus platypterus (Cork Hopbush)			
393.	4383	Tribulus terrestris (Caltrop)	Y		
394.	6727	Trichodesma zeylanicum (Camel Bush, Kumbalin)			
395.	11750	Trichodesma zeylanicum var. zeylanicum			
396.	7381	Trichosanthes cucumerina			
397.	48201	Trigastrotheca molluginea			
398.	679	Triodia angusta			
399.	13131	Triodia epactia			
400.	704	Triodia wiseana (Limestone Spinifex)			
401.	4873	Triumfetta appendiculata			
402.	14694	Triumfetta clementii			
403.	14942	Triumfetta maconochieana			
404.	7660	Velleia glabrata (Pee the Bed)			
405.	4323	Vigna lanceolata (Maloga Vigna, Wega)			
406.	31391	Vigna sp. Hamersley Clay (A.A. Mitchell PRP 113)			
407.	5106	Waltheria indica			
408.	728	Whiteochloa cymbiformis			
409.	729	Xerochloa barbata (Rice Grass)			
410.	731	Xerochloa laniflora (Rice Grass)			
411.	732	Yakirra australiensis			
412.	4326	Zornia albiflora			

Conservation Codes
T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 2
4 - Priority 5
5 - Priority 5



¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 11-Nov-2021

<u>Summary</u>

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

Caveat

Acknowledgements

Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	13
Listed Migratory Species:	16

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at http://www.environment.gov.au/heritage

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Lands:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	21
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

State and Territory Reserves:	None
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	2
Key Ecological Features (Marine):	None
Biologically Important Areas:	2
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Species		[Res	source Information]
Status of Conservation Dependent and E Number is the current name ID.	xtinct are not MNES unde	er the EPBC Act.	
Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Limosa Iapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area	In feature area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area	In feature area
MAMMAL			
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area	In feature area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Rhinonicteris aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Species or species habitat may occur within area	In feature area
REPTILE			
Liasis olivaceus barroni Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat likely to occur within area	In feature area
		within area	
Listed Migratory Species			source Information]
Listed Migratory Species Scientific Name	Threatened Category		source Information] Buffer Status
• • •	Threatened Category	[Res	
Scientific Name	Threatened Category	Presence Text	
Scientific Name Migratory Marine Birds Apus pacificus	Threatened Category	Presence Text Species or species habitat likely to occur	Buffer Status In feature area
Scientific Name Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Sterna dougallii Roseate Tern [817] Migratory Terrestrial Species	Threatened Category	Presence Text Species or species habitat likely to occur within area Foraging, feeding or related behaviour likely to occur within	Buffer Status In feature area
Scientific Name Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Sterna dougallii Roseate Tern [817]	Threatened Category	Presence Text Species or species habitat likely to occur within area Foraging, feeding or related behaviour likely to occur within	Buffer Status In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area	In feature area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area	In feature area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa nebularia			
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur	
[002]		within area	

Other Matters Protected by the EPBC Act

Commonwealth Lands [Resource Information]

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Commonwealth Land Name	State	Buffer Status
Unknown		
Commonwealth Land - [51566]	WA	In buffer area only

Listed Marine Species		[Re	source Informatio
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos			
Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Apus pacificus			
Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Bubulcus ibis as Ardea ibis			
Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata			
Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area	In feature area
Calidris canutus			
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris ferruginea			
Calidris malanatos	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
Chalcites osculans as Chrysococcyx osc	ulans		
Black-eared Cuckoo [83425]		Species or species habitat likely to occur within area overfly marine area	In feature area
Charadrius leschenaultii			
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
<u>Charadrius veredus</u>			
Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area overfly marine area	In feature area
Glareola maldivarum			
Oriental Pratincole [840]		Species or species habitat may occur within area overfly marine area	In feature area
Haliaeetus leucogaster			
White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Hirundo rustica			
Barn Swallow [662]		Species or species habitat may occur within area overfly marine area	In feature area
<u>Limosa lapponica</u>			
Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
Merops ornatus			
Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Rostratula australis as Rostratula benghalensis (sensu lato)			
Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area overfly marine area	In feature area
Sterna dougallii			
Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area overfly marine area	In feature area

Extra Information

EPBC Act Referrals			[Resoul	rce Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
Not controlled action (particular manner)				
Algae Farm and Processing Facilities	2012/6596	Not Controlled Action (Particular Manner)	Post-Approval	In feature area

Biologically Important Areas

Scientific Name	Behaviour	Presence	Buffer Status
Seabirds			
Ardenna pacifica			
Wedge-tailed Shearwater [84292]	Breeding	Known to occu	r In feature area
Sterna dougallii			
Roseate Tern [817]	Breeding	Known to occu	r In feature area

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Office of Environment and Heritage, New South Wales
- -Department of Environment and Primary Industries, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment, Water and Natural Resources, South Australia
- -Department of Land and Resource Management, Northern Territory
- -Department of Environmental and Heritage Protection, Queensland
- -Department of Parks and Wildlife, Western Australia
- -Environment and Planning Directorate, ACT
- -Birdlife Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -South Australian Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- Forestry Corporation, NSW
- -Geoscience Australia
- -CSIRO
- -Australian Tropical Herbarium, Cairns
- -eBird Australia
- -Australian Government Australian Antarctic Data Centre
- -Museum and Art Gallery of the Northern Territory
- -Australian Government National Environmental Science Program
- -Australian Institute of Marine Science
- -Reef Life Survey Australia
- -American Museum of Natural History
- -Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
- -Tasmanian Museum and Art Gallery, Hobart, Tasmania
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.

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Attachment B: Land Details

Lot 4217 on DP 217002	Crown land	
Volume: LR3142 Folio: 957		
Lot 589 on DP 77089	Crown land with Management Order to	
	Water Corporation	
Lot 931 on DP 76543	Crown land	
Lot 2656 on DP 215106	Crown land with Management Order to	
	Minister for Water Resources	
Lot 590 on DP 77089	Crown land with Management Order to	
	Water Corporation	
Lot 285 on DP 242018	Crown land with Management Order to	
	Water Corporation	
Lot 32 on DP 47815	Crown land	
Lot 530 on DP 221145	Crown land	
Lot 651 on DP29591	Crown land	
Lot 650 on DP 29591	Crown land	
Lot 324 on DP 42631	Crown land	