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Threatened species or ecological community	EPBC Act listing	Description*	Likelihood of occurrence^	Avoidance measures	Potential impacts*	Mitication to be applied	Further assessment to be completed*
Threatened ecological communities				1			
Gippsland Red Gum (Eucolyptus terreticorris subsp. mediono ) Grassy Woodland and Associated Native Grassland	Critically endangered	The grassy woodland has a tree canopy that has a projective foliage cover of more than 5% and is dominated by Gippsland red gum. The ground layer is covered by native perenail susced; grasses and grass-like plants with a variety of wildflowers. Natural temperate grassland's formerly occurred on the Gippsland plains. It is likely that a tree canopy was formerly present, but it has been largely cleared.	PMST: Community known to occur within PMST search area. Ecological assessment: May occur in solated roadides or remnant patches throughout the Laboba Yaller in the north of the route. Remnants of this community are highly figamented across much of its range, particularly in the Gippland Pain aboregion where much of the original lowland vegetation has been removed for agricultural purposes.	The route has been selected to avoid impacts to native vegetation as much as possible. HDD or other trenchless construction methods is proposed at targeted crossing sites such as waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Remark patches of this community within the Victorian survey area real linkly to be arrow and linear in name (associated with roadide waterways or unused road reserves) and cross the alignment at coughly right angle (perpendiculty). As a result, the overlap between the area of disturbance and remnants of this community is likely to be small and avoidance and minimising of is monets: considered feasible, with a loalmed millelihood of residual impacts.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easemen Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. Horizontal Directional Drilling (HOD) or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	t Further assessment of vegetation type and condition will be completed within the survey area to confirm this ecological community is/is not present.
Natural Damp Grassland of the Victorian Coastal Plains	Critically endangered	This ecological community is grassland ranging to open grassy woodland with scattered tress and shrubs. It is generally found on heavy grey silly-loamy soils and tends to occur on floodplane that receive higher rainfall and have poor drainage, becoming seasonidly workenged. It generally dominate by tussoic grasses. Where trees are present, they are typically a sparse cover of eucallyst species.	PMST: Community may occur within PMST search area. Ecological assessment: The community is unlikely to occur within the survey area as result of part agriculton clearance and changed laid use in coastal areas which may have once supported these communities.	The route has been selected to avoid impact to native vegetation as much as possible.	Significant impact to the community as a result of the project is not expected as the community is not likely to occur within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	: Further assessment of vegetation type and condition will be completed within the survey area to confirm this ecological community is/is not present.
Giant Kelp Marine Forests of South East Australia	Endangered	Also known as string kelp, giant kelp is a large brown algae that grows on rocky reefs from the sea floor 8 m below sea level and deeper. Its fronds grow vertically toward the water surface, in cold temperate waters off south east Australia. Giant kelp are the largest and fastest growing marine plants.	PMST: Community may occur within PMST search area. Marine ecological assessment: Anticipated to be mostly absent from the area of interest across Basis Strati, where the aseabed is comprised of unconsolidated or loose soft sediments. Soft sediments lack the hard substrate required for kelp holdfasts.	The route has been selected to avoid impacts to marine communities as much as possible.	Significant impact to the community as a result of the project is not expected as the project is not likely to intersect the community.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts.	Marine ecological surveys for vegetation type and condition will be completed within the survey area to confirm this ecological community signs not present.
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	The ecological community consists of the assemblage of plants, animals and micro- organisms associated with saltmarsh in coastal regions of sub-tropical and temperate Australia.	PMST: Community likely to occur within PMST search area Ecological assessment: The community is unlikely to occur within the survey area as a result of past vegetation clearance and charged land use in coastal areas which may have once supported these communities.	The route has been selected to avoid impact to native vegetation as much as possible. HDD or other trenchless construction methods is proposed at targeted crossing sites such as waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Significant impact to the community as a result of the project is not expected as the community is not likely to occur within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation type and condition will be completed within the survey area to confirm this ecological community is/is not present.
Tasmanian Forests and Woodlands dominated by black gum or Brookens gum (Eucolyptus overto / E. brookeriane)	Critically endangered	The ecological community is typically associated with sites that are poorly draining and wet, such as lowland flats, lower slopes, guilles or seepage slopes. The structure of the vegetation varies from open woodland to scherophyll forest. A tree canopy is present in which the minimum slot down cover is 3% or more and the dominant trees have a minimum height of 5 metres or more. The tree canopy is dominated to c dominated by Eucolyptus ovoto (black gum) and/or <i>E. brookeriana</i> (Brookers gum).	PMST: Community may occur within PMST search area Ecological assessment: No records from within 5 km and no suitable habitat within survey area.	The route has been selected to avoid impact to native vegetation as much as possible.	Significant impact to the community as a result of the project is not expected as the community is not likely to occur within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trends construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation type and condition will be completed within the survey area to confirm this ecological community is/is not present.
Tixreatened Tauna - Birds	Endangered	Large brown-black eagle with fnathered legs. Occurs across Tasmania in forested habitats and nests in large tracts of more than 10 ha of eucalypt or mixed forests.	PMST: No suitable habitat within survey area. Ecological assessment: There are two records of eagle nests within 2km of the converter station site.	Route and converter site selection was informed by two eagle nest surveys with avoidance of nests prioritised in selection of the proposed route. Further avoidance of impacts through timing of construction and maintenance work will be included in a management protocol to be prepared for the species.	There is potential to impact the species through disturbance of nest sites and breeding activity from construction and maintenance activities during the breeding season from July to January.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as activities restricted during eagle breeding season. A management protocol will be prepared in consultation with PCAB, based on the requirements of Found Technical Note No 1: Eagle nest searching, activity checking and nest management (Forest Practices Authority, 2014).	Next surveys have been completed to locate nexts within 2 km of the proposed route and converter station. Further surveys will be completed pror to construction to confirm the presence and uses of nexts within 1 km and 50m of the proposed route and converter station so the appropriate mitigation measures can be implemented.
Curlew sandpiper (Colidris ferrugineo)	Critically endangered Migratory Marine	Small, silm sandpiper that mainly occurs on intertidal mudflats in sheltered coastal areas and around non-tidal xwamps, lakes and lagons near the coast. They are also recorder lainad around ephemeral and permanent waterdoodies. Mostly occur in eastern Tasmania as well as several sites in Northwest Tasmania.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: In Victoria, the species is widespread and common in costal hays and niets and in near-costal wettends, and indust habitational and trautarine habitats, including intertidial modifies, non-tidial swamps, lakes and lagoots on the cost and sometimes inland. The high-energy beach at Warstali Beach is not optimal habitat and there are few recent records in the landscape. Consequentially, there is a low likelihood of this species occuring.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Impacts unlikely due to lack of suitable habitat.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Tasmanian azure kingfisher (Ceyx azureus diemenensis )	Endangered	A small brightly coloured kingflisher with a long slender black bill and red legs. The head, neck, and back are deep blue, and the breast is orange-red. Species inhibits the forested margins of waterways.	PMST: Species or species habitat may occur within PMST search area. Ecological assessment: Species records in Tasmania are on the west and northwest coast in the forested margin of rivers, with suitable habitat unlikely in the survey area. No recorded sightings on waterways within 5 km of the proposed route.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Impacts unlikely due to lack of suitable habitat.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other tenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
White-throated Needletail (Hirundopus caudocutus )	Vulnerable Migratory Marine	Large swift with a thickset, cigar-shaped body, stubby tail and long pointed wings. Migratory species that is almost exclusively aerial within Australia. Occurs over most types of habitat, but recorded most often above wooded areas including open forest and rainforest. Hanhing occurs within Australia during non-breeding season from September to November.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: The white-throated needletail is an aerial species which could occur over most habitats and has a moderate likelihood of occurrence within the Tasmanian survey area. Aerial species which could occur. No records within 5 km of project.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Impacts unlikely due to species almost exclusively being aerial within Australia and their high mobility.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchiess construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Eastern Curlew (Numenius modogosconiensis )	Critically endangered Migratory Marine	Largest migratory shorebird in the world. Rarely recorded inland. During non-breeding season in Australia the species is most commonly found in sheltered coasts, estuaries, bays, harbours, inlets and coastal lagoons, with large intertidal mudflats or sandflats.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: A summer migrant to Australia, the eastern carlie withabits estuaries, bays, handwas, linkts and caracital lagoons, interfaild modifist or sanditas, occan beaches, coarl eefs, rock platform, suffmarta, mangroes, freshwater//rackati.base, satiworks and wange farms. Mangriah habita habita habita identified at Wanatah Beach within the Victorian survey area, however it is not likely its species makers. Suitable habitars as Jutable habitars as subate area as species primarily found near the coast. No records of the species within 5 km of the proposed route.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Impacts unlikely due to lack of suitable habitat.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird densky will also be completed if deemed necessary.



#### PMST: Refers to outcomes of the Protected Matter Search Tool (PMST) results Ecological assessment: Information from Marinus Link Terrestruit Ecology Report [ELA 2021] and the Species Profile Note: and Threats Database (Department of Agriculture, Water and the Environment) Marine ecological assessment: Information from Marinus Link Marine Ecology and Resource Use Desktop Assessment: Study (Envirodit 2021)

Hooded Plover (eastern) (Thinornis curuliatus curuliatus )	Vulnerable Marine	A stocky, medium-sized wading bird about 20 cm long. Both males and females are similar and have a black 'hood' and a white 'collar' across the back of the neck. Occurs around the coast of Tamanaia on ocean beaches where they may be observed singly, in pair, family groups or flocks	PMST: There are no records within 5km and limited suitable habitat within the survey area. Ecological assessment: The beaches along the north coast between Deloraine and Burnie are subject to high levels of human disturbance.	Alternative construction methods e.g. HDD rather than trenching through sensitive coastal habitat areas	Main threats to the species include habitat loss from clearing for the project. Although no direct impacts on nesting (Breeding) are likely to cocur within the survey area three may be impacts on movements and dispersial alog and/ proint beach and between important areas of habitat and among populations at Warstah Bay.	A Construction Environmental Management Plan will be prepared, detailing miligation measures to be implemented during construction to avoid and miligate impacts. Marinus Link Easement Management Plan will set out miligation measures to be implemented during operations to miligate impacts and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Masked Owl (Tyto novoehollandiae )	Vulnerable	Large owl with white disc face that occurs in lowland areas generally below 660 m where it inhabits native forests and woodlands as well as agricultural areas with a mosaic of native vegetation and pastures. Nests in hollows in large old trees.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: The species nests in hollows in large old trees however no nest trees are known within the survey area. Nowever, there may suitable large of trees present that provide suitable habitat. Records of species within 5 km of proposed route, however some records have poor accuracy.	The proposed route has been selected to avoid impacts to large old trees as much as practicable.	Clearing of vegetation for tracks, easements and transmission lines has the potential to impact on habitat. However, no known next trees are recorded within the survey area, with the closest from next ores 24 hin to the north test of the spocest, iowland dry open frost areas of the preferred habitat of the spoces; lowland dry open frost and woodking forciding where there is a moader of agricultural and forest). Because of this the species is unlikely to be impacted.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOO or other trendhies construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of large old trees will be completed to confirm if there are nesting trees within the survey area.
Regent Honeyester (Anthochoera Phrygia)	Critically endangered	The honeyeater has a black head, neck and upper breast, a lemon yellow back and breast scaled back, with the underparts grading into a white rump, black wings with conspicuous yellow patches, and a black tail edged yellow. In males, the dark eye is surrounded by yellowith warty bare skin. Fremles are semilare, with a bare yellowish patch under the eye only, and have less black on the throat. Young birds resemble females, but are browner and have a paler bill.	PMST: Species or species habitat likely to occur within PMST search area; foraging, feeding or related behaviour likely to occur within area. Ecological assessment: Species occurs in box-ironbark forests and woodlands in northern Victoria. The project is outside species primary range and is not likely to have a significant impact on this species.	The proposed route has been selected to avoid impacts to large old trees as much as practicable.	Impacts unlikely due to lack of suitable habitat.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD will be undertaken at shore crossings, areas of significant vegetation and waterways where sensitive habitats may be impacted (where geotechnical conditions permit).	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Australasiun Bittern (Botourus poiciloptilus )	Endangered	The Australasian Bittern is a heavy-set, partially nocturnal heron with upperparts that are patterned dark brown, buff and black, and underparts that are streaked brown and buff. The reptrove and throas are pairs, and the side of the neck is dark boom. The bill is brown and the legs are greenish. The Australasian Bittern is also called the Australian Bittern or the Brown Bittern.	PMST: Species or species habitat likely to occur within area. Ecological assessment: The species is found in coastal and sub-coastal areas in externe south-weatern maintand Australia, south-eastern maintand Australia and Taumania and inhabits wetlands and swamps with tall aquatic vegetation. Decasionally occurring in rice fields and saltmarshes.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Impacts unlikely due to lack of sultable habitat.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendwises construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Red knot (Calidris canutus )	Endangered Migratory	The Red Knot is a medium-sized, dumpy grey wader with a short neck and long body. The bill is short and straight and there is a faint pale brow line. The green-grey legs are short. The upper body is brownish grey with fine dark streaks on the head and neck. The underbody white with some light streaking. In breeding plumage, the upper body is boldly marked, contrasting with the chestnut-red body.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: Suitable habitat for the red knot occurs around the coast of Australia, and includes intertifal modilitat, sandflats hetered sandy beaches, estuaries, bay, inkel, logono, haboroux, sandy coast beacher, occ klatforms, coral reds, furentiful saline wetlands near the coast, sewage ponds and allworks. Porterial habitat has been identified at Watcash Bay within tev Victorian survey area, but the species is unlikely to make significant use of this due to high levels of human activity (distuncia) along much of the bay and the (on-optimal) exposed/high-energy (wave) nature of the backh habitat present. Consequentially, there is a low likelihood of significant impact to this species.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	tmpacts unlikely due to lack of sultable habitat.	A Construction Environmental Management Plan will be prepared, detailing miligation measures to be implemented during construction to avoid and miligate impacts. Marinus Link Easement Management Plan will set out miligation measures to be implemented during operations to miligate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Antipodean Albatross (Diomedea antipodensis)	Vulnerable Migratory Marine	A large bird with brown and white breeding plumage. Its juveniles are similar in appearance to the wandering allatorss. Breeding females have brown upper parts, and have white vermiculations on their back. Its face, throat, lower breast, and help are white, and is undertail covers are brown. Its underwings are also white, but with a dark tip. Breeding males are whiter than females, but not as white as the wandering albatross, and both seves have a pink bill.	PMST: Foraging, feeding or related behaviour likely to occur within area. Ecological assessment: The Antipodean Albatross is endemic to New Zealand, but forages widely in open water in the south-west Pacific Ocean, Southern Ocean and the Tasman Sea. It is marine, pelagic and aerial.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Southern Royal Albatross (Diomedea epomophora)	Vulnerable Migratory Marine	The southern royal albatross is the largest of the albatrosses. It has a white body and black wings and white tait. The robust bill is light pink with a creamy tip and with a black cutting edge to the upper mandble.	PMST: Foraging, feeding or related behaviour likely to occur within area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Wandering albatross (Diomedea exulons )	Vulnerable Migratory Marine	The wandering albatross has the longest wingspan of any living bird. The plumage varies with age, with the juveniles starting chocolate brown. As they age they become whiter. The adults have white bodies with black and white wings. Males have whiter wings than females with just the tips and trailing edges of the wings black. The large bill is pink, as are the feet.	PMST: Foraging, feeding or related behaviour likely to occur within area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Northern Royal Albatross (Diomedea exulans)	Endangered Migratory Marine	Northern Royal Albatross have combination of blackish upperving, pure white body and black cutting edge to the upper bill. Adults can be distinguished from the Southern Royal Albatross by the solid black upperving. Toung birds can be separated from the Southern Royal Albatross by Lucing a white leading edge to the upperving, and having black on the leading edge of the underwing.	PMST: Foraging, feeding or related behaviour likely to occur within area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Grey falcon (Falco hypoleucos)	Vulnerable	The Grey Falcon is a medium-sized, compact, pale falcon with a heavy, thick-set, deep- chested appearance. Upperparts are uniform light grey, shading to blackish on the primaries, forming conspicuous dark wing top: The tail has narrow blackish bars. The ohin, throat and checks are white, and the rest of the underbody is pail grey. The eye- ring, cere and base of the bill are bright orange-yellow, and the tip of the bill black.	PMST: Species or species habitat may occur within area.	The proposed route has been selected to species habitat as much as practicable.	Significant impacts unlikely due to lack of suitable habitat.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set our mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. MoD or other trendwises construction methods is proposed at tageted crossing sites such as shore crossing, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
White-bellied storm petrel (Fregetta grallaria)	Vulnerable	A small, compact storm-petrel with a square cut tail, white forehead, face and underparts and a broad dark mark through the eye. Upperparts are dark grey. Various colour phases have been observed, including a dark phase, having sooty plumage, with only the rump and belly showing white.	PMST: Species or species habitat likely to occur within area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to species habitat as much as practicable.	Significant impacts unlikely due to lack of suitable habitat.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchiess construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.

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Threatened species or ecological community Painted honeyeater ( <i>Grantiella picta</i> )	EPBC Act listing Vulnerable	Description <sup>1</sup> The Painted Honeyeater is a melium-sized honeyeater with a relatively short beak and tail, and is particularly found in association with mistletee. Males are black above with bright yellow wing panels and upper tail, and have white underparts with some black streaks on the flanks. The bill is pink. Females and young birds are duller and lack streaks.	Likelihood of occurrence <sup>4</sup> PMST: Species or species habitat likely to occur within area.	Avoidance measures The proposed route has been selected to species habitat as much as practicable.	Potential impacts*	Migston to be appled A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set our mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendes construction methods is proposed at tageted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment to be completed* Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Blue Petrel (Haldaana caeruleo)	Vulnerable	A small prion-like patterned petrel. It is readily identified by the white-lipped tail which is unique among petrels and prions. Other distinctive characteristics include the pale buich-grey upperparts with a narrow open 'M' marking across the upperwings, the black bill and the prominent blackish cap offset by a large white forehead patch.	PMST: Species or species habitat may occur within area. Marine ecological assessment: Species or species habitat may occur in area	The proposed route has been selected to species habitat as much as practicable.	Significant impacts unlikely due to lack of suitable habitat.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Swift parrot (Lathomus discolour)	Endangered	The Swift Parrot is a slim, medium-sized parrot with a streamlined shape in flight, angular pointed wings and a long pointed purple-red tail. The body is mostly bright green, with a disk log patch on the cown. The forehead to thorait is crimon and there is a crimion patch at the bend of the wing. The female is slightly duller, with a creamy underwing bar.	PMST: Breeding likely to occur within PMST search area. Ecological assessment: A non-breeding winter migrant to the mainland from Trammain. In Victoria, the over-wintering habitat of the Swift Parrot is eucalypt forests and woodlands. While the species may infrequently use the study area for forging there are no recent records:	The proposed route has been selected to species habitat as much as practicable.	Given no recent records, there is a low likelihood of significant impact to this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set our mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOP or other trendhes construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Bartailed godwit ( <i>Limeso lopponico</i> )	Vulnerable Migratory	Bar-tailed Godwits are quite large waders, with females being bigger than males. The Bar-tailed Godwit is mainly motiled brown above and lighter and more uniform buff befow. It has duit white underwings, and a long, slightly upturned bill. The white tail is barred with brown.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: Relatively common winter visitor to Tasmania where it intertidal anoflats, banks, mudflats, estuaries, inites, hairours, coastal lagoons, bays, seagrass bests, saithurash, sewage farms and and brackish wetlands near coasts, sandy coare baches, nock julaforms, and coral reef-flats. Rarely inland wetlands, paddocks and ainstrips.	The proposed route has been selected to species habitat as much as practicable.	Considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Southern Giant-Petrel (mocronectes gigoneus)	Endangered	Southern glant petrels have two distinct colour phases, white and dark. Dark phase adults have a grey-brown body with white head, neck and brown speckled breast. Juveniles of dark phase bick have a dark brown broky with a dark brown brins, which closely resamble northern giant petrel juveniles. White phase birds generally constitute a maximum of 5% of a population.	PMST: Foraging, feeding or related behaviour likely to occur within PMST search area; species or species habitat may occur within area. Ecological assessment: The Southern Giant-Petrel is a marine species. Over summer, the species means is small colores amongst open vegetation on Antarctic and subantarctic islands. It can be seen off the coast of Victoria during the non- breeding season.	The proposed route has been selected to species habitat as much as practicable.	With the implementation of appropriate avoidance and mitigation measures, impacts are expected to be low.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Orange-beilied Parrot (Neophema chrysogaster)	Critically endangered	The Orange-belled Parrot is just bigger than a Budger(gar, with males and females varying slightly in appearance. The male is a bright gates green on the head, back and more of the wargs, fanding to a yellowing-bere on thorast and breast, to bright yellow to the vert and under the tail. The belly has a bright orange patch, and there is a deep bulk band between the eyes, bordread baole by a faith bulk lim. The male also has bright blue on the bend of the wings. The female is dulier, with less blue and has a smaller orange belly patch. Both male and females have a greyish-black bill, a dark- brown eye and greyish-brown legs.	PMST: Migration route likely to occur within PMST search area. Ecological assessment: The species breeds in Taumania and migrates in autumn to spend the winter on the mainland coast of south-eastern South Australia and southern Victoria Vittor habitat is mostly within 3 am of the coast in sheltered bary, lagoon, estuarier, coastal dunes and saltmanhes. The species also occurs on small silands and perinaula, saltworks, got occurs, low samples herbitand and tailer coastal shrubland. There is a narrow band of suboptimal habitat present at Warstah Bay.	The proposed route has been selected to species habitat as much as practicable.	The species has a low ilkelihood of occurrence within the project area, and the project is not likely to have a significant impact to this species	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendhess construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Fairy prion (Pochyptilo turtur)	Vulnerable Marine	The fairy prion has dark "M" stretching across the back from wingtip to wingtip and a black to to the upper tail. Fairy prions can be carefully distinguished by their smaller size, poorly defined fucial murkings, and broad, dark top to the upper tail.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: A marine species often beachcast on the south-eastern coast of Australia and are commonly seen offshore over the continential lafef and over peligic values; Frond in temperate and subandratic search area. It cometines forage over continentia shokes and the continential slope but can come dose instruct in rough weather.	The proposed route has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Sooty albatross (Pheobetria fusco)	Vulnerable Migratory Marine	The sooty abatrons is a slender all-dark chocolate brown albatrons with a long pointed tail, slender head, long narrow wings usually flexed at the carpal joint, and a spically efforties. Bigly, smoother and overall higher above the water than in other albatroses. Adults in fieth journage are entirely dark brown except for the whitch shafts of primmer and main tail flexibens, a white criscent above and behind the eye, and a cream to yellow-orange stripe on the side of the slender glossy black bill.	PMST: Species or species habitat likely to occur within area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Gould's Petrel, Australian Gould's Petrel (Pterodroma leucoptera leucoptera)	Endangered	The upper surface of their long narrow wings has a distinctive 'M' pattern. This together with a darker head, distinguishes them from other petrels of similar size. The underside of the wings and body are white with a dark edge to the wing that terminates in a diagonal bar. Both sexes are identical and immature birds fledge in adult plumage.	PMST: Species or species habitat may occur within area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Soft-plumaged Petrel (Pterodroma moliis)	Vulnerable	The soft-plumaged petrel is a medium-sized dark-grey-and-white gadhy petrel with narrow wings and a pointed tail in flight. It has a dark grey head with prominent white feathers on the checks and thorat, and white speckling on the forehead. There is a prominent dark ept patch. The upper prufices is even dark-grey with diarker toxom- black feathers running across the upper wings and runnp in an M-shape. The underside is mostly white on the body but with diark grey underwings. The dark net collar can create a hooded appearance from a distance. In the hand, the black bill has a sharp hook to seize prey. The legs are pink with black on the outer webs and toes.	PMST: Species or species habitat may occur within area. Marine ecological assessment: Species or species habitat may occur in area	The proposed route has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Australian Painted Snipe (Rostratula australis)	Endangered	The Australian Painted Snipe is a snipe-like shorebird with a bullous-sipped bill, broad, counded wings and longth higs that protocols beyond the tip of the tuil when in flight. The sees differ. Males have a dark-brown crown with a buff median stripe; the rest of the head and neck are dark ashy-grey, with a cream-coloured, comma- shaped mark around the eyer. The upperparts are ashy-grey with blackish barring and blotches, and a norrow, golden-buff mesogravity and the stripe extends from the side of the breast into the shoreback. The rest of the underparts are white. The upper breast is dark ashy-grey with pale streaks, a broad white stripe extends from the side of the breast not on the shoreback. The rest of the underparts are white. The upper gravity a uniform dark-brown head and upper breast, a nufous hindneck, and darker upperparts with fine barring.	PMST: Species or species habitat likely to occur within area.	The proposed route has been selected to speces habitat as much as practicable.	The species has a low likelihood of occurrence within the project area, and the project is not likely to have a significant impact to this species	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Fairy tem (Sternula nereis nereis)	Endangered	The Fairy Tern is small grey and white tern, 22 to 27 cm in length with long, narrow wings and a bright orange bill. In non-breeding plumage the crown is largely white, mottled block and the bill is blockint at the base and tip. Immature Farry Terns are similar to non-breeding adults. Young bicks are similar to immature, But upperving coverts and mantite are mottled grey and brown. Also known as Nereis Tern, White- faced Tern, Little Sea-swallow, Sea-swallow or Ternlet.	PMST: No suitable habitat within survey area. Ecological assessment: Occurs along the coast of Victoria. Inhabits a variety of habitatis including offhore, estuarme or lake klanda, wetlands and mainland costline. It reits an obtened sandy beaches, spitan da baita about the high fold line and below vegeration. There is suitable habitat for the species at Waratah Bay beach and recent records.	The proposed route has been selected to species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendes construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Buller's Albatross, Pacific Albatross (Tholossarche bulleri)	Vulnerable Migratory Marine	One of the smallest albatross. The Buller's Albatross is similar to other grey-headed albatros, but has a striking black and yellow bill, a white forecap, black patch before the eye, a fit white cressent to the rear of and below the eye, and a mostly white underwing with a moderately broad sharply defined leading edge.	PMST: Species or species habitat may occur within area. Marine ecological assessment: Species or species habitat may occur in area	The proposed route has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.



Threatened species or ecological community	EDBC Act listing	Description*	Likelihood of occurrence	Aunidance measures	Dotential impacts*	Militation to be applied	Eurther accessment to be completed*
Shy Albatross (Tholossorche cauto)	Endangered Migratory Marine	A medium-sized dark-backed albatross with pale underwings outlined by a narrow dark border and a dark notch in the armpit. The adult has a whitish head with greyish checks that give it a "white-capped" appearance. The grey green bill had with greyish. The species breeds on islands off Tarmania and New Zealand but disperses widely across the southern Oceans between 13 and 60°s, where it is a frequently encountered pelagic seabird.	PMST: Foraging, feeding or related behaviour likely to occur within area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed mule has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact or the species.	A Construction Environmental Management Plan will be prepared, detailing miligation measures to be implemented during construction to avoid and miligate impacts. Marinus Link Easement Management Plan will set out miligation measures to be implemented during operations to miligate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Grey-headed Albatross (Tholassorche chrysostomo)	Endangered Mägatory Marine	Rarely found north of cold subantarctic waters; ranges south to pack-ice in summer. Adult has a grey head, thick black underwing margins like much commore Black- borneed Albattos; immatures look similar to Black-browed overall, but told by black bill that soon develops yellow along top, and often with variable grey hood. Yellow bil deges narrower than the more lightly ull Buller's Albatross, which occurs to the north but is often mistaken for Gray-headed.	PMST: Species or species habitat may occur within area. Marine ecological assessment: Species or species habitat may occur in area	The proposed route has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact or the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Campbell Albatross, Campbell Black-brown Albatross (Tholossorche Impovide)	Vulnerable	It is similar to the more regularly encountered Black-browed Albatross but adults can be separated by the pale yelow (not dark brown) yees, the heavier black brow (more extensive in from of the eye), the undering having trace black margin, and the bill being a bright orange yellow that may be redshih on the sides.	PMST: Foraging, feeding or related behaviour is likely to occur within the PMST search area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact or the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Black-browned Albatross (Tholossarche melanophris)	Vulnerable Migratory Marine	The Black-browed Albatroos is the most dominan albatroos seen in doublem Australian waters for most of the yeas and is the only one of the molymowiks (another name The the Black brower in the set of the set of the molymowiks (another name The back upper integrated all are a slarp black. The underwing is white with browe black manying, expected by the leading edge, the face is white what is a multi black brower over a dark eye. The legg and face are blue-grey to flexih-pink. This species is also called the Black-browed Mollymawk.	PMST: Foraging, freeding or related behaviour likely to occur within PMST search area; species or species habitat may occur within area. Ecological assessment: The species is common in the non-breveling period at the continental half and indel heads of totacia. It can totace as broad range of sea- surface temperatures, from 0–24P C. It forages around the breaks of continental and island shelves and across nearby underwater banks.	The proposed route has been selected to species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set our mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HDD or other trendies construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Gibson's Albatross (Diomedea antipodensis gibsoni)	Vulnerable	A large Albatross species, with breeding confined to New Zealand. Plumage varies widely, with the amount of white dependent upon the ser, age and population characteristics at 15 breeding site island. Males are white above and below, including crown. They have white upoperstic is users this avanging demission of the black wary lines. Tail white, sometimes topped black. Outer wing and trailing edge black. Underwing white, sometimes topped values. Outer wing and trailing edge black. Londerwing white, sometimes topped values. Construction of the set of the black for an applicable feet are a pain field colour, while the bill is pink, topped yellow. Females are similar to males however have brown speckles or striations on the crown.	PMST: Foraging, feeding or related behaviour likely to occur within PMST search area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to species habitat as much as practicable.	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact or the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Northern Giant Petrel (Diomedes sonford )	Vulnerable Migratory Marine	Very large with massive pake bill that always has a pinkish tip (often darker than rest to bill). Plumage varies; most birds dark overall or with whitish face, but some have very whitish head and underparts; does not have a white morph, unlike Southern Giant. Juveniles are sooty brown which fades to grey brown as they age.	PMST: Species or species habitat may occur within area. Marine ecological assessment: Species or species habitat may occur in area	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation is unlikely to impact the species due to the lac of habitat used by the species and lack of records within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HDD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Great Knot ( Calidris tenuirostris )	Critically Endangered Migratory Marine	Largest of the calidrid shorebirds. It is a medium-sized shorebird and grows to a length of 26-26 are with a wingroup of approximately 35 cm. Females are slightly larger than makes. It has a straight, siender slith that is black with a pare tinge at the tip. The eye is brown and legs and feet are dark greenish-grey. The bird has noticable breeding, non-breeding and jowneli plumages. The great ht of has been recorded around the entirety of the Australian coast, with a few scattered records inland.	PMST: Species or species habitat may occur within area. Ecological assessment: No historical records within 50 km of the study area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HDD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Greater Sand Plover, Large Sand Plover ( <i>Charadrius leschemoulti</i> )	Vulnerable Migratory Marine	The Greater Sand Plover is a small-to-medium sized shorebird with a straight longish bill that bulges towards the end but has a pointed tip. The legs are long and olive-grey . Sees are non-distinguishable from each other when in non-breeding plumage However, sees differ when in breeding plumage with males having a chestrut. breast hand and notious finging to the head and nape and with black on the face. Victoria - mostly recorded from Corner Inlet, Western Port and Port Phillip Bay.	PMST: Species or species habitat may occur within area. Ecological assessment: Potential habitat at Wantah Beach. High-energy beach at Wantah beach not optimal habitat, but may be used occasionally.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HDD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Lesser Sand Plover, Mongoliun Plover (Charadrius mongolus )	Endangered Migratory Marine	The Lesser Sand Plover is a small to medium-sized grey-brown and white shorebird. It has dark eye-stripe, short stoo black bill and short grey legs. Seese stilfer when in breeding plumage. The lesser sand plover is widespread in coastal regions and has been recorded in all states. J. The breeding grounds are at high elevation (plot 55, 500 m, blow the tree-line, in tundra on steppes and in flat, barren valleys and basins, usually in boggy areas.	PMST: Species or species habitat may occur within area. Ecological assessment: Potential habitat at Waratah Beach. High-energy beach at Waratah beach not optimal habitat, but may be used occasionally.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HDD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.



PMST: Refers to outcomes of the Protected Matter Search Tool (PMST) results Ecological assessment: Information from Marinus Link Terrestria Ecology Report (ELA 2021) and the Species Profile Note: and Threads Database (Department of Agriculture, Water and the Environment) Marine ecological assessment: Information from Marinus Link Marine Ecology and Resource Use Desktop Assessment Study (Enviroduri 2021)

Threatened speces of ecological community Casplan Tern (hydroprogne cospio )	Lou CAC (inteng Marine Migratory	Uscraptions <sup>1</sup> The largest tern in Australia, the Carplan Tern has long, slender backswegt wings and a slightly forded Tall. The heavy bill is red with a dusky tip. The Caspian Tern has a white body, with a black and white strated crown from bill respond a 3 hord tablegy crest. The mantle and uppervings are gray and the flight feathers are darker. The eye is dark brown and legs are black. The speices occurs in coastal regions.	Uneurodo of infocurrences PMST: Species or species habitat may occur within area. Ecological assessment: Suitable habitat at Warstach Bay beach and recent records.	Availablice measures	Potential imposition	Adquicton to be appeed A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment to be completed.
Ruddy Turnstone (Arenaria interpres )	Marine Migratory	The Ruddy Turnstone forages in close flocks of 10-100 or more individuals, especially in titial areas. Species is mainly coastal, frequenting productive rocky and shingle dones, breakwaters, sandy beaches with storm-wracked seaweed, alternatives, alternatives, and prove swamps, exposed reefs and mudilats with beds of mollucci.	PMST: Species or species habitat may occur within area. Ecological assessment: Moderate levels of seaweed and no rocky platforms within study area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Sanderting (Calidris alba)	Marine Migratory	The Sanderling is a tiny, pale gray wader, seen durting along shorelines. The upper body is gray, with white below. The bill is dark, thick at the base and eligity decode at a lap. The lega methort raw black and lacking a thirs the. Sanderling often cocar's on exposed sandy beaches along Australia's coastlines that are subject to the ocean's swell.	PMGT: Species or species habitat may occur within area. Ecological assessment: Observed at Waratah Bay within study area	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Red-necked Stint (Calidris ruficollis)	Marine Migratory	The Red-necked Stint is a small Calidridinae approximately 13–16 cm in length and is the smallest shorebird in Australia. It weights 25 g and has a wingspan between 33 and 33 m.t is distributed along most of the Australian coastillar with large densities on the Victorian and Taxmanian coasts. The Red-necked Stint has been recorded in all coastal regions, and found inaind in all tasks when conditions are suitable. The Red- necked Stint probably travels in flocks and has been observed to feed in dense flocks.	PMST: Species or species habitat may occur within area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Double-banded Plover (Charadrius bicinctus)	Marine Migratory	The double-banded Plover's Upper body is brown; underparts are white, with a cream stripe through eye. Species is found in eastern Australia and Tasmania along beaches, grassed edges of open wetlands and intertidal muditats.	PMST: Species or species habitat may occur within area. Ecological assessment: Suitable habitat within study area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Swinhoe's Snipe (Gallinago megalo)	Marine Migratory	Swinhoe's Snipe has black, brown, buff and white plumage. They are large, manh- dwelling shorebird of wetlands, wet meadows, and both flooded and dry agricultural fields.	PMST: Species or species habitat may occur within area. Ecological assessment: No recent records and suboptimal habitat present in study area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Red-capped Plover (Charadrius ruficapillus)	Marine	Red capped Plovers are grey-brown above with white underneath and on the forehead. Their bill and legare black. Adult males have a bright redshich-chestrut have lock of near black stripe running from the bill to the eye and one running from the nage to the breast. Adult framelies have a grey-brown crown, a pale red-brown may and less distinct that kar makings. Located along sandy beaches, saltmarshes, and saline wetlands and lakes in Victoria and Tasmania.	PMST: Species or species habitat may occur within area. Ecological assessment: Suitable habitat present at Waratah Beach.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Pacific Golden Plover (Pluvialis fulva)	Marine	The Pacific Golden Plover is a siender upright shorebird (wader), with a rounded head, slim neck, short fine bill and long legs. It has large eyes. In breeding plumage, the underparts from the tail to the chin including the eye are black with white flecking on the tail. The Pacific Golden Plover occurs mostly on the coast of Victoria and Tasmania.	PMST: Species or species habitat may occur within area. Ecological assessment: Suitable habitat present at Warstah Beach and recent records	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.

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PMST: Refers to outcomes of the Protected Matter Search Tool (PMST) results Ecological assessment: Information from Marinus Link Terrestruit Ecology Report [ELA 2021] and the Species Profile Note: and Threats Database (Department of Agriculture, Water and the Environment) Marine ecological assessment: Information from Marinus Link Marine Ecology and Resource Use Desktop Assessment: Study (Envirodit 2021)

Threatened energies or ocalesical community	EDBC Act listing	Decelation*	Likelikeed of occurrenceA	Ausidance moscures	Datastisi impacts*	100 stoke second European Stoke second stoke s
Little Curlew, Little Wihimbrel (Numenius minutus )	Marine Migratory	The Little Curlew is the smallest curlew with an average length of 28–31 cm. dult birds have strongly patterned heads, with a blackish crown, a narrow bulf coloured median crown stripe, and a broad pate superfluin (neyberow). A short blackish-brown eyestripe which is broader at the front but does not reach the bill also distinguishes the species. Lores are bulf and ear coverts pale bulf with fine brown streaking. The neck and breast is off white and streaked with dark known, while the remaining underparts are white with dark known bars nicotable on the flanks. The Little Curlew rarely occurs in Victoria, but has been recorded east of Wilson's Promotory and at lake tryers, lake Weilington and Shilou neler, around Port Phillip Bay, and also from lakes in the western Victoria and in the region of Mystic Park. There have been a few scattered records in Tasmania, such as the Derwent River estuary, Pittwater and Cape Portland.	PMST: Species or species habitat may occur within area. Ecological assessment: Uncommon in Victoria. No historical records near the study area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendwises construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.
Whimbrel (Numenius phaeopus )	Marine Migratory	The Whimbrel is a medium-sized curlew, which is mainly streaked brown, with twin dark streaks along the crown and bill. The bill is long and slightly de-curved (curved downwrods), with a junk lower base. The legs and neck are long. The loody is white body with which carely streaked brown operparts. In Bight, the light-coloured rung and streaked tail is dovious. Whimbrels leed in small groups and roost in large locks, often with net waders, Whimbrels are found mainly on the coast, on total and estauritier mudfast, especially near mangroves. They are sometimes found on basches and rocky shores.	PMST: Species or species habitat may occur within area. Ecology assessment: Marginal habitat at Warstah Bay beach. May make infrequent use.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easternet Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where gestechnical conditions permit.
Greater Crested Tern (Tholosseus bergii )	Marine Migratory	Greater Created Terns are medium sized, clender terns that are widely distributed. They are commonly found in near-coastal environments and estuaries, but also inhabit lakes and rivers inland.	PMST: Species or species habitat may occur within area. Ecology assessment: Recorded during the shorebird field assessment along Sandy Point beach	The proposed route has been selected to avoid species habitat as much as practicable.	Potential for construction activities to impact on the species. It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.
Grey-tailed Tattler ( <i>Heteroscelus brevipes</i> )	Marine	The grey-tailed tattler is a small, foraging shorebird. The bill is rather long and straight. In non-breeding plumage it is grey above and almost white below.	PMST: Species or species habitat may occur within area. Ecology assessment: No recent records in the study area. Suboptimal habitat.	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation is unlikely to impact the species due to the lack of habitat used by the species and lack of records within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easternet Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HDD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.
Threatened fauns - crustaceans	Vulnerable	A large slow-growing and long-lived freshwater crayfish that can weigh up to 3 kg. Species is endemic to rivers, takes and streams of northern Tasmania.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: The species is endemic to rivers, lakes and streams of northern Tasmania. Potential suitable riverine habitat within the survey area with records in small streams within 5 km of the proposed route.	Direct impacts to riparlan areas will be avoided where possible through overflying unterways and careful placement of towers. New access tracks will be designed to avoid waterway crossing where possible or will minimise and mitigate impacts through design and placement if needed.	Impacts are unlikely due to avoidance of impacts to waterways and the species having a low likelihood of occurrence within the project area. If access tracks are required they will be designed and constructed to avoid sediment taken numoff entering waterways and minimise clearing of riparian vegetation.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HDD or other trenchless construction to avoid and mitigate impacts. HDD or other trenchless accessing is a submer crossing, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.
Burnie Burrowing Crayfish (Engaeus yabbimunna)	Vulnerable	Burnie Burrowing Grayfish are small freshwater crayfish, with a general body length of under ten centimetres. They vary in colour from orange to reddish brown, grey Daue, and purple. All burrowing crafts has getes havor wet, moday areas and segages, where their burrows exhibit characteristic chinneys of pelleted soil. Particular species vary in the level of water availability and other environmental conditions that they telerate and/or prefer	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: No suitable habitat within the survey area.	Direct impacts to riparian areas will be avoided where possible through overflying waterways and careful placement of towers, waterway crossing where possible or will minimies and militare impacts through design and placement if needed.	Impacts are unlikely due to avoidance of impacts to waterways and the species having a low likelihood of occurrence within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HDD or other trenchless construction aguatic ecology values and potential impacts to be completed.
rmederler under - nan	Vulnerable	Found in lowland areas in the far north-west and north-east of Tasmania. Population distribution is patchy due to habitat being lowland, shallow and swampy.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: There is potential for dwarf galaxias populations to be present in several waterways south of Buffalo to Morwell, including Morwell River, Bel Hole Creek, Noro Creek, Little Morwell River, Berrys Creek, Tarwin River East Branch, and Fish Creek.	Direct impacts to rigarian areas will be avoided where possible through overflying widetways and cardiu placement of towers. New access tracks will be designed to avoid waterway crossing where possible or will minimise and mitigate impacts through design and placement if needed.	There is potential for impacts to the species through loss or modification of instream aquatic or riparian habitations or through introduction of disease and pollutants during construction. Further information required to determine whether there is suitable habitat for the species and if populations are present in sponsithy to the project. There is potentia to avoid (through HOD) and mitigate impacts to this species (if present) to avoid a significant impact.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HDD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.
Australian grayling (Prototroctes maraena )	Vulnerable	Dark green to dark grey fish with silvery sides and a dark mid-lateral stripe. Fish are born in freshwater then migrate to the ocean as juveniles where they grow to adults before migrating back into freshwater to spawn.	PMGT: Species or species habitat known to occur within PMST search area. Ecological assessment: Suitable habitat within waterways intersected by the proposed route. Recorded in Cam Wore, Bythe River, Leven River, Forth River and Merser, River, however on records are within's a tim of the proposed route. In Victoria, There is potential for Australian graying populations to be present in a number of waterways south of Suffato Morwell, and therefore potentially impacted by the project. These include Morwell River, Ed Holo Creek, Story Creek, Little Morvell River, Berry Creek, Tamik Mers Erst Branch, and Fish Creek. This species has been recorded at several locations along the Tawin River East Branch.	Direct impacts to riparian areas will be avoided where possible through overflying waterways and careful placement of towers, how access tracks will be designed to avoid waterway crossings where possible or will minimize and mitigate impacts through design and placement if needed.	There is potential for impacts to the species through loss of modification of instream aquatic or ripartan habitations or through introduction of disease and pollutants during construction. Further information is regulated to determine whether there is suitable habitat for the species and if populations are present in pointify to the project. There is potentia to avoid (through HOD) and mitigate impacts to this species (if present) to avoid a significant impact.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HDD or other trenchless constructions are so from the second sec
Growling Grass Frog. Green and golden frog (Litoria raniformis )	Vulnerable	Large green tree frog up to 80 cm long that breeds in permanent freshwater lagoons with a dense cover of aquatic vegetation.	PMST-Species or species habitat known to occur within PMST search area. Ecological assessment: Suitable habitat unlikely within survey area. No records of the species within 5 km of the proposed route in Taumania. There are numerous records of the growing grass frag within the Victoria survey area. Who potential habitat in the form of permanent and ephemeral waterbodies such as farm dam, include Fah Creek, Stomy Creek, Tawin River East Banch, Berry Creek, Little Movenel River, Morvel River and El Hold Creek, and dam nere Buffalo, Dumbalk-Stomy Creek Road, South Gippsland Highway and Waratah Road.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	In Victoria, there is potential for impacts on growling grass frog to occur through the clearing or degradation of aquadic and terrestrial habitat for trenches, tracks, and/or easements, spread of discase (Chyridi Gauga) and peets during construction, politicion, and (Temporar) disouption of dispersal. However, with management measures implemented to avoid and minimise impacts on important populations (where present), it is considered unlikely the project will exceed significant impact thresholds for this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easternet Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HDD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.
spotted-tail quoli ( <i>Dasyurus moculotus moculotus</i> (Tasmanian population))	Endangered	A medium camivorous marsupial found in wet forest and coastal habitats across Tasmania.	PMST: Species or species habitat may occur within PMST search area. Ecological assessment: Postential for suitable habitate within the survey area. Secies recorder area the proposed neuronal scillable habitate spotted-saled quoties in wet forest and coastal habitats across Tamanaia, luchuding wet and dry forests which have entiting lays or nock outcrops to provide dera sites and are found in the survey area for the Heybridge to Blythe River mouth survey area.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Clearing of vegetation has the potential to impact on habitat and maternal den sites. Post mitigation, impacts are expected to be low	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeks and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.

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Threatened species or ecological community Spotted-tail quoli (Dosyurus moculatus maculatus (3E mainland population))	EPBC Act listing	Description* A medium camivorous marsupial found in wet forest and coastal habitats across several discrete areas of Victoria.	Utelihood of eccurrence <sup>A</sup> PMST: Species habitat may occur within area Ecological assessment: Potential for suitable habitat within the survey area. Species recorded near the proposed route. In Victoria, locations include East Gippland, the Streteckic Range, and Wilsion's Promotory National Park. The	Avoidance measures The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Potential impacts* Clearing of vegetation has the potential to impact on habitat and matemail den sites. Post-miligation, impacts are expected to be low	Mitigation to be applied A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will be during unitigation measures to be implemented during operations to notigate impacts and a spreading of weeds and pathogens. Will do or other trenchess construction methods is proposed at targeted crossing sites such as shore consist, waterways, selection radiade vegetation, and where geotechnical	Further assessment to be completed* Assessment of habitat and den sites in areas of suitable habitat (forest with abundant rotting logs or rock outcrops).
Eastern quoli (Dosyurus viverrinus )	Endangered	A small camivorous marsupial found in dry grassland and forest mosaics bounded by arricultural land	species inhabits rainforest, open forest, woodland, coastal heath and inland riparia forest, from the sub-alpine zone to the coastline. <b>PMST:</b> Species or species are regionally extinct in the survey area. <b>Ecological assessment:</b> The species now survives in several discrete areas Viderolain, include astern Victoria (north-eastern Victoria	n The proposed route has been selected to avoid native vegetation and areas of	Clearing of vegetation has the potential to impact on habitat and maternal den sites. Proci-militation impacts are exercised to be low	containons permit. A Construction Environmental Management Plan will be prepared, detailing mitigation messures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. DDD or other trendmess construction methods: so monocide at largent environment environment and environment envi	Assessment of habitat and den sites in areas of suitable habitat (dry forest habitat, grasslands and heathlands)
		Adult Southern Brown Bandicoots have a body length of about 300 mm, a short (120	and lowland East Gippsland) and South Gippsland, in the Streelecki Ranges. It inhabits bry sciencephyli Brest, scrub, healthand and cultivated land. There are records within Sism and potential for suitable habitat to occur in the survey area. <b>PMST</b> : Species or species habitat likely to occur within area <b>Ecological assessment</b> : Primarily distributed in coastal regions in Victoria.	conservation value as much as practicable.		conditions permit.	
Southern Brown Bandicoot (isoodon obesulus obesulus )	Endangered	mm), this tail with a pointed end, and weigh between 400-1600 grams. The species has a relatively who no sean de arc, dark grey or yellowish brown fur on its upper body, tail and feet and a creamy white belly.	Distribution of this subspecies includes the East Gippsland Lowlands, Gippsland phain (Western section) and Wilson's Promotory. The species inhabits heath or open forest with a heathy understorey on sandy or friable soils with dense ground over and adjacent open areas for foreign. There are no recent records nearby and there is unlikely to be suitable habitat present. PMST: Species or pagies labbitat likely to occur within PMST search area.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendwises construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Assessment of habitat and den sites in areas of suitable habitat (dry forest habitat, grasslands and heathlands).
Eastern barred bandicoot (Tasmania) (Perameles gunnii gunnii )	Vulnerable	A sinal management ong pink nose and ange ears and characteristic pare bars across its hindquarters. Occurs in a range of agricultural habitats across Tasmania where improved pasture is interspersed with patches of native bush.	Ecological assessment: Suitable habitat likely within survey area. No records within 5 km of proposed route.	avoid native vegetation and areas of conservation value as much as practicable.	However, as the species prefers mosaic native vegetation and pasture habitat, the impact is unlikely to be significant.	Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchiess construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Assessment of habitat within survey area.
Broad-toothed rat (Mastacomys fuscus mordicus)	Vulnerable	A compact rodent, chubby-cheeked, with a short, wide face and ears, and long, dense, fine fur. It is brown above, with attractive, rufous highlights. The tail is shorter than the head and body length. The tail is ringed, with very little fur.	PMST: species or species habital likely to occur within PMST search area. Ecological assessment: Found in the alpine and subalpine heathlands of Victoria and southern RSV. In southern Victoria, the species courges dense undergrowth in wet sedgelands. There are no suitable vegetation types in the survey area.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	The project is not likely to have a significant impact on this species as there is no suitable habitat in the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Eastement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchiess construction methods is proposed at tageted crossing sites such as shore crossings, waterways, seeled roads, areas of roadside vegetation, and where geotechnical conditions permit.	Assessment of habitat within survey area.
Tasmanian devil (Sorcophilus horrisii)	Endangered	Medium-sized carnivorous marsupial that inhabits forest, woodland and agricultural areas across Tasmania.	PMST: Species or species habitat likely to occur whithin PMST search area. Ecological assessment: Taximanian devils use holiow (logs, caves, denor or burrows as deter and material den sites, and are shown to occur in the Taximanian survey area. Stutable habitat includes wet and dry forests which have rotting logs or rock durings to provide den sites. Generally wet exalps forests have the highest density of orticing logs suitable for den sites. Suitable habitat found within survey area. Records of the species within 5 habits of no proposed nucle.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Clearing of vegetation for the converter station has the potential to impact to habitat, however this is unlikely given the existing disturbance to the via implementation of popopolate avoidance and mitigation messures mean that post-mitigation, impacts are expected to be low.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction accels and pathogens. HOB or other trenchless construction measures is the implemented during operation to this stream of the stream of t	Assessment of habitat and den sites in areas of suitable habitat (dry forest habitat, grasslands and heathlands).
Swamp Antechinuc (Antechinus minimus )	Vulnerable	The Swemp Antechnius has a head to body length of 55:140mm with a tail length. ToX of the head to body length. It is a thickes tranchinus with long shorder muzzle, long foreclaws, short eases that do not portunde far beyond the fur and pale eye-rings. The Swamp Antechnius (S mainland) has egith teast whils the Transmian and the Bass Strait Stiands population has its teats. The upperparts are brown with a yellow or rulocus wash, particularly on the runn, Banks and hindlegs, with paler buff or grey- vellow underparts and pale claws.	PMST: Species or species habital likely to occur within PMST warch area. Ecological assessment: The species mainly occurs in dump areas with dense vegration at about 1-7 mabove ground level, including dense we heathlands, tussock grasitants, sedgeland, dump gallies, swamps and some shrubby woodlands. The species is found in coasil victoria as far east willown's Promotory and there is potential for it to occur in larger patches of native woodlands and dense new the coast.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated, however further impact assessment will be completed as part of future assessment phase for the project.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment of vegetation types and habitat will be completed within the survey area. Assessment of bird density will also be completed if deemed necessary.
Sei whale (Balaenaptera boreolis)	Vulnerable Migratory Marine	Set whates have a long, size body that is durk black-grey to black in colour and white or cream-colored not be underside. The body is often covered in oval-shaped scars (probably caused from coskie-cutter shaf and langurey bites) and sometimes has subtle* motifing, or discoloured spots or blackness. Set whates have a tail, hooked dorsal fin located about two-thirds down their back.	PMST: Foraging, feeding or related behaviour likely to occur within PMST search area. Ecological assessment: Foraging, feeding or related behaviour likely to occur within the study area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated.	Adopt National Guidance on the Management of Whale and Dolphins Incidents in Australian Waters. Adopt measures outlined in EPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO); timing works during daytime with good visibility; use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acoustic monitoring.	Detailed impact assessment to be completed.
Fin whale (Balaenaptera physolus)	Vulnerable Migratory Marine	Fin whales have long, slender bodies that can grow up to a whopping 80 feet in length. With a distinct ridge running behind the donal fin, in some countries they have earned therewise the incliname "racondacks" and cut through the water who ease. Like other baleen whales, fin whales have expandable pleats that allow them to take in huge amounts of water and food.	PMST: Foraging, feeding or related behaviour likely to occur within PMST search area. Ecological assessment: Foraging, feeding or related behaviour likely to occur within the study area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated.	Adopt National Guidance on the Management of Whale and Dolphins Incidents in Australian Waters. Adopt measures outlined in EPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acoustic monitoring.	Detailed impact assessment to be completed.
Blue while (Boloenoptera musculus)	Endangered Migratory Marine	The blue whale is an extremely large marine mammal, with a long, torpedo-shaped body. They have blue-grey coloured skin, with a slightly lighter coloured underside; they have two pectoral fins, a small dorsal fin on their backs, and a large fluke.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: Species or species habitat likely to occur in the study area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated.	Adopt National Guidance on the Management of Whale and Dolphins Incidents in Australian Waters. Adopt measures outlined in EPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acoustic monitoring.	Detailed impact assessment to be completed.
Southern right whale (Eubalaena australis)	Endangered Migratory Marine	Southern right whales can grow to about 17 metres long and weigh up to 100 tonnes. They have dark sky, with irregular while patches on the throat and belly and a round body which tapes to a relatively narrow tail stock. They have a broad tail, with flukes which form a wide traingle with a notch in the middle large, broad pectoral fins, which have a rectangular shape.	PMST: Species or species habitat known to occur in PMST area Marine ecological assessment: Species or species habitat known to occur in the study area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated.	Adopt National Guidance on the Management of Whale and Dolphins Incidents in Australian Waters. Adopt measures outlined in FPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO); timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acoustic monitoring.	Detailed impact assessment to be completed.
Humpback whale (Megoptero novoeonglioe )	Vulnerable Migratory Marine	The Humpback whale is a moderately large whale weighing up to 45 tornes. The Humpback whale can be readily distinguished from other whales by its large flippers which are almost one third of the body length. The flippers are black/white motified on the upper side, mostly white underneath and heavily scalloped on the leading edge. Other distinctive features include enlarged sensory hair follcies on the upper and lower javes, prominent serrations on the rear margin of the tail, and individually distinctive black and white patterns on the underside of the tail flukes.	PMST: Species or species habitat known to occur in PMST area Marine ecological assessment: Species or species habitat known to occur in area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated.	Adopt National Guidance on the Management of Whale and Dolphins Incidents in Australian Waters. Adopt measures outlined in EPBC Act Policy Statement 21 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acoustic monitoring.	Detailed impact assessment to be completed.
Southern greater glider (Petauroides volans)	Vulnerable	The Southern Greater Glider is Australia's largest gliding mammal. Greater Gliders have thick, dark gray-brown fur on their back and creamy white fur on their under- side, and can be found in different dark and light-coloured morphs. They have a long, furry prehensile tail and large furry ears.	PMST: Species or species habitat known to occur within area. Ecological assessment: Three is outable habitat for the southern greater glider within the survey area and three a potential for the species to occur in the Milloo North Regional Park, west of the survey area, adjacent forest and woodlind, and further to the east each Morkin's Bado between Stony (Creat and Morwall Bave; and Hazehood in the northern section of Victoria. The population occurs is far west as the Workhow State Forest: Trypically found in higher adundance in alian; mortane, most euralypt forests with relatively off thres and abundant hollows. The survey area supports imility regelation types and some actions are contiguous with those supporting known southern greater glider populations.	The proposed route has been selected to avoid notive vegetation and areas of conservation value as much as practicable.	The species is sensitive to fragmentation due to poor dispersal capabilities (determined by its gliding distance), small home range size, and reliance of hollow-bearing target press, which are rare in the indircape. Narrow cordinos spotential homest normal homesting and suitable habitat. There is a potential to impact on the species trough loss of large holow-bearing treas and loss of functional ecological connectivity between populations through paps in habitat created by clearance for the underground cable.	There is currently insufficient information on the current distribution and size of populations within the survey area and area of disturbance to determine whether significant impacts can avoided through the implementation of management measures.	Further information on population size and distribution in the survey area and ultimate area of disturbance is required to determine whether management measures can avoid significant impacts on the species. This will be assessed as part of further detailed ecological studies to be completed to support the assessment phase of the project
Long-nosed Potoroo (Potorous tridactylus)	Vulnerable	Adult long-nosed potenois have a head and body length of about 350 mm and a tail length between 200 - 250 mm. Its for its greych-brown about and light grey below. It distinguished from the slightly larger, but very similar long-footed potenois in a number of sublet ways including its short rat (ill (sist has 20 mm long) and smaller hind-foot (shorter than its head). Also, unlike the long-footed potrons the long-nosed potrono larks a leathery pad on the sole of its foot, just behind the inner toe (a hallucial pad).	PMDT: Seciels or species habital likely to occur within area. Ecological assessment: In Victoria, the Long nosed Potoroo (SE Mainland) occurs in sid korzete region, Grampians, Otways, Western Port, Wilsons Promotory and east Gippsland. The species most commonly inhabits heath-woodlang draging into heath. There are no records in the local area and restricted occurrences across the state as well as a low likelihood of suitable heath habitat being present.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	The project is not likely to have a significant impact to this species	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Assessment of vegetation types and habitat will be completed within the survey area.
Grey-headed Flying-fox (Pteropus poliocephalus)	Vulnerable	The Grey-headed Trying-fox is the largest Australian bat, with a head and body length of 23 - 29 cm. It has dark grey fur on the body, lighter grey fur on the head and a russet collar encircling the neck. The wing membranes are black and the wingspan can be up to 1 m. It. It can be distinguished from other flying-foxes by the leg fur, which extends to the ankle.	PMST: Species or species halptat may occur within PMST search area; foraging, feeding or related behaviour may occur within area. Ecological assessment: Found throughout eastern Mainland Australia in subtropica and temperate rainforests; tail science/phil forests and woodlands; heaths and swamps as well as urban gardens and cultivated fruit crops. Suitable foraging habitat present.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	With the implementation of appropriate avoidance and mitigation measures (to be determined as part of the impact assessment phase), impacts are expected to be low.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Assessment of vegetation types and habitat will be completed within the survey area.
New Holland Mouse, Pookila (Pseudomys novaehollandiae )	Vulnerable	The New Holland Mouse is similar in size and appearance to the introduced house mouse, although it can be distinguished by its slightly larger ears and eyes, the absence of a notch on the upper incisors and the absence of a distinctive 'mousy' odour. The species is grey-brown in colour and its dusky-brown tail is darker on the dorsal side.	PMST: Species or species habitat may occur within area. Ecology assessment: Disjunct species distribution. Nearest isolated historical records are 50 km away from the study area.	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation is unlikely to impact the species due to the lack of habitat used by the species and lack of records within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendenties construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Assessment of vegetation types and habitat will be completed within the survey area.
Clover Glycine, Purple Clover (Glycine latrobeano )	Vulnerable	Small perential herb up to 10 cm tail that grows in dry forest, wooflands and low open woodlands with a grassy ground layer, on sand or loamy sand soils.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: Found across south-eastern Australia in native grasslands, dry sciencyhyll forests, woodlands and low open woodlands with a grassy ground layer, on said or loamy said saids. The project is outside of known range of species and there is no authick habitat. Statistic habitat occurs within the survey area. No records within 5 km of prosposed route.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	The project is not likely to have a significant impact on this species	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Assessment of vegetation communities and threatened flora will be completed within the survey area, to confirm TarVeg mapping and identify locations for threatened flora to inform design and development of mitigation measures.
River Swamp Wallaby Grass (Amphibromus fluitons)	Vulnerable	A perennial grass to 0.8 m tail that spreads by both underground and above-ground stems. Flowering stems tend to be somewhat sprawling, except for the flowering portion of the stalk, which is erect and up to 35 mm long. The leaf blade is rough to touch and deeply rolbed. The structure that breaks away from the flower-stalk is two- toothed, with a straight bristle arising about half way up its back. The species is virtually aquatic, often with only the flower heads above the water.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: River yowang wallaby-grass is considered likely to occur within the Victoria survey area. Sullabel habital includes promatent and semi- permanent waterhooles (particularly swamps, lippons, billaborgs, dans and maddle ditche), which experience regular inundation and/or seasonally- fluctuating water levels. Should this species occur it is likely associated with waterbodies intersecting the alignment.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Assessed against EPBC Act criteria, the project has potential to have significant impact on river swamp walkap-grass. Further information on population size and distribution in the survey area and ultimate area of disturbance in required to determine whether management measures can avoid significant impacts on the species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further information on population size and distribution in the survey area and ultimate area of disturbance is required to determine whether management measures can avoid significant impacts on the species. This will be assessed as part of further detailed ecological studies to be completed to support the assessment phase of the project.

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Threatened species or ecological community	EPBC Act listing	Description*	PMST: Species or species habitat likely to occur within PMST search area.	Avoidance measures	Potential impacts*	Mitigation to be applied
Tailed Spider-orchid (Caladenia caudata)	Vulnerable	The tailed spider orchid is a ground orchid with a single hairy leaf and up to four red, or yellow and red flowers with dark red to almost black tips.	Ecological assessment: Species is found mainly in dry heathland and heathy woodland heaths, in lowland areas of northern, eastern and southeastern Tasmania. No records from within 5 km of either route and no suitable habitat	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Thick-lipped Spider Orchid (Caladenia tessellate )	Vulnerable	The Thick Lip Spider Orchid is from a group of orchids characterised by five long spreading petals and sepals around a broad down-curled labelium ((ip)). It has cream- coloured petals with reddish stripes, and the yellowish labelium is broad with a few diakter stripes. The long, sparsely-hair, narrow leaf is about 6 cm long and 5 mm wide Column base with two prominent yellow glands.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: Confined to eastern Victoria. Found in near-coastal heathy woodlands to open forest, on well drained sandy soils. Habitat may be present through dram forests in the northern section. Known from a National Park nearby, however few records and habitat in study area more highly modified.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Matted flax-illy (Dianello omoena)	Endangered	A tufted, mat-forming perennial lily with grey-green leaves which are often crimon at the base. Flowerstem to 45 cm tall with numerous pale-dark blue scented flowers to 20 mm wide. Small round whitch to dark blue berries.	PMST: Species or species habitat known to occur within area. Ecological assessment: Matted flax-lly is considered highly likely to occur within read/dea and remnant woodland patches within the Latrobe Valley and northern foothils of the Structeol ranges. Studies habitat includes grave woodland, or derived rative grasslands, which have experienced limited modification, as a result of changed und management (e.g. vegeteinch channer or graing).	Should these values be present within the study area, they will be restricted to narrow corridors of vegetation associated with roadsides, waterways or unused road reserves which intersect the alignment, therefore avoidance and/or mitigation will be possible.	Due to the relatively isolated nature of Dianella amoena populations and restricted dispersia potential (reliant on threatened native bees) uminigated construction could result in the removal of habitat and individual resulting in a "tinget em decrease in the size of a population", "decision in the area of coupling of the species" and/or "introduce invasive species that are harmful to the species"	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge National Recovery Plan for Matted Flax-Bly.
Strzelecki Gum (Eucolyptus strzełecki)	Vulnerable	Tree to 40 m tail; bark smooth, whitish with red-brown mottling, usually with a short stocking of loose, semi-persistent rough bark.	PMST: Species or species habitat known to occur within area. Ecological assessment: Charlen and the special control of the special spe	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	The likely area of disturbance is located adjacent to or intersects areas of hobbit likely to support their individual Localystus stratekcil trees or more significant populations. As a result, there is considerable potential to impact on a unknown number of individuals near Story Oresk, the Lower Tawin East Branch, the Little Moreel River valley where remaint vegetation has been retained along minor dranage lines. This impact may be considered significant is could find along been remaint vegetation has been retained along minor dranage lines. This impact may be considered significant population of a species', "individue the area of occupancy of an animal of a species', "individue the area of occupancy of an animal of a species', "individue the area of occupancy of an animal of animal of on the special of the base of the size of an individue and minimation measures through sections of the route are uncertain and further investigations, including understanding a detailed the construct, will likely be required to further understand likely impacts on the species. Consequently, there is potential for residual impacts of the project to be considered a moderate impact to this pockets.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge National recovery plan for the Strzelecki Gum.
Maroon leek-orchid (Prasophyllum frenchii )	Endangered	The Maroon Leek-orchid is a tall, slender, deciduous terrestrial orchid endemic to south-eastern Australia.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: The species occurs in grassland, healthand and open forest owell-drained or water-retentive sand or clay loams. Suitable habitat may occur near coastline in healthy woodland and there are records at Wilsons Promontory.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge National recovery plan for the Marcon Leek-orchid.
Basalt Pepper-cress, Peppercress, Rubble Pepper-cress, Pepperweed (Ledpidium hyssop/folium)	Endangered	Upright multi-branched herb growing to 50 cm tail and 50 cm wide. Narrow leaves at base very divided or toothed. Stem leaves are rough, narrower, 14 cm long with an ear-like lobe at their base. Tiny green inconspicuous flowers held on softly hairy stalks.	PMST: Species or species habitat may occur within area.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge National recovery plan for the Basalt Peopercress
Dense Leek-orchid (Prasophyllum spicatum )	Vulnerable	The Dense Leek-orchid Prasophyllum spicatum is a tall, slender, deciduous terrestrial orchid endemic to south-eastern Australia	PMST: Species or species habitat likely to occur within area.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set our mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge National recovery Jan for the Dense Leek-orchid
Green-striped Greenhood (Pterostylis chlorogramma )	Vulnerable	A terrestrial, perennial, deciduous, herb with an underground tuber. Non-flowering plants have a nosette of between three and six lance-shaped to narrow egg-shaped leaves. Flowering plants have up to seen translucent green flowers with darker green stripes on a flowering spike 200-450 mm high.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: The species grows in motis areas of heathy and shrubby forest, on welf-andres solis. Suitable habitat may occur in southern half or alignment, in small patches of heathy forest but there are no records in the survey area.	Clearing of woodlands and suitable habitat is likely to be minimal in southern parts of the route due to fragmented and sparse cover.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Leafy Greenhood (Pterostylis cucuiloto)	Vulnerable	A terrestrial, perennial, deciduous, herb with an underground tuber. It has between four and seven egg-shaped to oblong levves, some of which form a roteste at the base and some partly warp around the flowing its etm. The levaes are 40–100 mm long and 15–30 mm wide, dark green, fleshy and flat. A single white, green and reddish-brown flower is kome on a flowering stem 50–250 mm high. The flowers are 35–40 mm long. 20–25 mm wide.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: The species is widely distributed but disjunct, mostly occurring in small groups in coastal areas, sometimes near inland waterourses. There is the optential for suitable habitat to occur in souther mear-coastal section, and near Shailow inlet and there is a population present in Wilsons Promontory	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge National recovery plan for the Leafy Greenhood
Swamp Greenhood (Pterostylis tenuissima)	Vulnerable	The Swamp Greenhood Pterostylis tenuissima has a single translucent white flower up to 20mm long, with dark green stripes and toning. Flower stems are green, grow to approximately 30cm tail and have up to six small stem sheathing leaves.	PMST: Species or species habitat may occur within PMST search area. Ecological assessment: Habitat for the species occurs in south-west Victoria and Wilsons Promontory and Cape Schank in the east. There is low potential for habitat along roadside vegetation in the near-coast section of study area.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Swamp Fireweed (Senecio psilocarpus)	Vulnerable	An erect perennial herb growing to 80 cm tail that grows in swampy habitats.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: There is low potential for habitat within project area.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Swamp Everlasting (Xerochrysum polustre )	Vulnerable	The Swamp Evertisating is a perennial herb, to 100 cm tail. It has narrow leaves along more or less erect stems, and large yellow 'paper daixy flowers' at the ends of branches. The leaves are manner, stablies and partially clasp the stems. The leaves are lance-shaped, to 10 cm x 8 mm, and more or less halfess, except for colowebby hairs along their edges. Flowers appear from November to March. Flower-heads are up to 50 mm arcss, and consist of numerous, small, tubuit Interiss in a certaral 'button', surrounded by a ray of numerous, glossy yellow, horad, overlapping, papery brats. The furt is a narrow, dry seed, to 3 mm long with a crown of yellow bristles about twice as long as the seed.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: The species occurs in lowland swamps, usually on black cracking (day solls, scattered from near the South Australian border nort-west of Perv high-quality, lowland swamps in the alignment to provide suitable habitat, and the species is therefore unlikely to occur within project area.	The proposed route has been selected to avoid native vegetation and areas of conservation value as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge National recovery plan for the Swamp Everlasting
Metallic Sun-orchid (Thelymitra epipactoides)	Endangered	The metallic sun-orchid is a rare orchid (Orchidaceae) that grows 21 – 52 cm tall and produces one long, fleshy, narrow leaf which is tubular at the base. It is a herbadous perennial geophysic. The the metallic sun-orchid's leaf areas annually from a summer dormant tuber. The metallic sun-orchid occurs across south-eastern Australia.	PMST: Species or species habitat may occur within area. Ecological assessment: No records within study area and likely to be outside species range.	The proposed route has been selected to avoid species habitat as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Spiral Sun-orchid ( <i>Thelymitra matthewsii</i> )	Vulnerable	The Spiral Sun-orchid Thelymitra is a deciduous, perennial, terrestrial orchid emeging annually from an underground tuber. It has a single, linear, spirally-buisted, dark green leaf which is outer and sheathing at the base. The sinder purple flower stem grows to 20 cm tall, has a single small sheathing bract, and bears a single (rarely two) deep buists to redidin purple flower with diver stripser. In Australia, T. matthewali is wide) buist sportidite diversities and source and source and the stripser of the stripser in Australia. The stribues displand (vic). The species occurs in the Victorian Midlands, South East Coastal Plain South East Comer, Naraconer Coastal 'Plain and Kammantoo IBRA bioregion.	PMST: Species or species habitat may occur within area. Ecological assessment: Suitable habitat may be present in sandy soils in the southern Skm near-coastal habitats.	The proposed route has been selected to avoid species habitat as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Grassland Greenhood, Cape Portland Greenhood (Pterostylis ziegeleri )	Vulnerable	Terrestrial orchid with a basal rocette of dark green, oval leaves that produces a flowering stem with several small, green and white hooded flowers. In the Midlands it occurs in Themeda tranara native grassland and grassy woodand while, in coastal areas, it occurs on the slopes of low stabilised sand dunes and in grassy dune swales.	PMST: Species or species habitat may occur within area. Ecological assessment: Potential for suitable habitat in near-coastal heathy woodlands surrounding Waratah Bay.	The proposed route has been selected to avoid species habitat as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Sky-blue Sun-orchid (Thelymitra jonesii)	Endangered	The Sky-blue Sun-orchid is a terrestrial orchid, which grows to 40cm high and diesy back to aubternanen tubers after flowering. Flowering occurs from Cottber to early becember. The flowers are light blue to aure blue. Sun-orchids are so named because the flowers of most species open only in warm to hot weather, particularly on bright, sumr days. The Sky-blue Sun-orchid occurs only in Tasmania. It has been recorded in moist coastal heath on sandy to peaty soils and in Eucalyptus oblique forest in deep loam soil over dollerte.	PMST: Species or species habitat may occur within area. Ecological assessment: No records from the study area and no suitable habitat.	The proposed route has been selected to avoid species habitat as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Native Wintercress, Riverbed Wintercress (Borborea austrolis )	Endangered	Barbarea australis, Family Brassicaceae, alto known as native wintercress, is an annual or short lived perennial. It has a cluster of broad dark green leaves at the base of an erest 50-100 cm high flowering stem. The flowers are yeallow with 2-8 mm long petals. The many seeded capules are 20-40 mm long and 2-25 mm wide. Native wintercress is flown dear view marging, crest beds and along flood channels in shallow alluvial sitt on rock slabs, rocky ledges, or between large cobbles.	PMST: Species or species habitat may occur within area. Ecological assessment: No records from the study area and no suitable habitat.	The proposed route has been selected to avoid species habitat as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Scrambling Ground-fern (Hypolepis distans )	Endangered	Hypolepis distans has a creeping, slender rhizome that is covered in dark, red-brown hairs. Fronds are distributed along the rhizome, erect, herbaceous, 30–60 cm long; stipe fine and rough, red-brown, glossy, with sparse hairs.	PMST: Species or species habitat may occur within area. Ecological assessment: No records from the study area and no suitable habitat.	The proposed route has been selected to avoid species habitat as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge
Hoary Sunray, Grassland Paper-daisy (Leucochrysum albicons subsp. Tricolor)	Endangered	The Hoary Sunray (Lexcechrysum albicans var. tricolor) is a perennial everlasting daixy belonging to the daixy family Atteraceae. The yellowish flower heads are surrounded by numerous with overlapping outselong bracks, while houser layer often tinged purple or brown. The fruits are brown, ovoid, 2–3 mm long, with 14–30 pappus brates.	PMST: Species or species habitat may occur within area. Ecological assessment: No records from the study area and no suitable habitat.	The proposed route has been selected to avoid species habitat as much as practicable.	Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathoge

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Threatened energies or ocalogical community	EDBC Act licting	Description*	Likelihood of occurrences	Aucidanco moacuror	Potential impacts*	Reliantion to be analised	Further according to be completed?
Interteneo species of ecological community Loggerhead turtle (Caretta caretta )	Endangered Migratory Marine	The loggerhead turtle is dark torow above, sometimes irregularly speckled with darker brown. The top of the head is dark brown, becoming pale on the sides with irregular darker blotches and white, cream or yellowish below. The shell is somewhat elongated and more of iess heart-haped.	PMST: Foraging, feeding or related behaviour known to occur within PMST search area Marine ecological assessment: Species or species habitat known to occur in area	The proposed route has been selected to avoid areas of conservation value as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, habitat disturbance, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegeration, and where geotechnical conditions permit.	Further assessment to be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Green turtle (Chelonia mydas )	Vulnerable Migratory Marine	Green turtles are olive-green above, usually variegated with brown, reddiub-brown and black. They are whitih or cream below. The green turtle is named for the greenish colour of its fat, caused by its diet of seagnass. They have a smooth, high domed shell with non-overlapping coutes.	PMST: Foraging, feeding or related behaviour known to occur within PMST search area Marine ecological assessment: Species or species habitat known to occur in area	The proposed route has been selected to avoid areas of conservation value as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, habitat disturbance, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Leatherback turtle (Dermochelys coriocea)	Endangered Migratory Marine	The leatherback is the largest turtle in the world, and has a primarily black rubbery skin with pinksh-white colouring on its underside. They are the only species of sea turtle that lack sciels. Their hall consist of anall, interfloring demail bones beneath the skin that overhe a supportive layer of convective tissue and fat and the deeper selectors. The compact has seen of lags along its length and lapses to a bluit ploint.	PMST: Foraging, feeding or related behaviour known to occur within PMST search area Marine ecological assessment. Species or species habitat known to occur in area	The proposed route has been selected to avoid areas of conservation value as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, habitat disturbance, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Sharks Great White Shark (Carcharodon Carcharios )	Vulnerable Migratory Marine	The great white shark is a very large shark with a robust, large, conical snout. The upper and lower lobes on the tail fin are approximately the same size which is similar to some markered sharks. A great white diplays counterbanding, by having a white underside and a grey dorsia area (cometimes in a brown or blue shade) that gives an overall mottled appearance.	PMDT: Foraging, fixeding or related behaviour known to occur within PMST search area; species or species habitat known to occur within area. Marine ecological assessment: Species or species habitat known to occur in area	The proposed route has been selected to avoid areas of conservation value as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Migratory species Satin flycatcher (Mylogra cyanoleuca)	Migratory Marine	Glossy blue-black bird. Inhabit heavily vegetated guilles in eucalypt-dominated forests and tailer woodlands and migrate to coastal forests, woodlands, mangroves and drier woodlands and open forests.	PMST: Breeding known to occur within area. Ecological assessment: Suitable habitat within survey area. Species recorded within 5 km of proposed route.	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation has the potential to impact on habitat. This impact is likely to be under the threshold for a significant impact as it is below 1% of habitat or 4,400 has as defined in the Draft referral guidelines for 14 birds listed as migratory species under the EPBC Act.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitgation measures to be implemented during construction.
Common sandpiper (Actitis hypoleucos )	Migratory Marine	A small sandpiper found along all coastlines of Australia and in many areas inland. The population, when in Australia, is concentrated in northern and western Australia.	PMST: Species or species habitat likely to occur within PMST search area. Ecological assessment: Marine and coastal species unlikely to be found in the survey area. No records from within 5 km and no suitable habitat within survey area.	The proposed route has been selected to avoid species habitat as much as practicable.	Impacts are unlikely as the marine and coastal species is unlikely to be found within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Sharp-tailed sandpiper (Colidris ocuminato )	Migratory	A medium sized wader that spends the non-breeding sesson in Australia. Prefers muddy edges of shallow fresh or brackish waters with inundated or emergent sedges, grass, saltmarsh or other low vegetation. In Tasmania they mostly occur in coastal areas.	PMST: Species or species habitat may occur within PMST search area. Ecological assessment: Potential suitable habitat along waterways and smaller wetlands/waterbodies. High-energy beach at Waratah Beach not optimal habitat but may be used occasionally.	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation is unlikely to impact the species due to the lack of habitat used by the species and lack of records within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Marsh sandpiper (Tringo stagnotilis)	Migratory Marine	The marsh sandpiper inhabits swamps, lagoons, billabongs, saltpans, saltmarshes, estuaries, pools on inundated floodplans, intertidal mudflats, sewage farms and saltworks, reservors, waterholes, soaks, bore-drain swamps and flooded inland takes.	PMST: Species or species habitat may occur within PMST search area. Ecological assessment: Most occurrences of the marsh sandpiper in Victoria have been in Port PMIB pay, west of the project area, however there have been records in Gippstand, and suitable habitat has been identified in flooded pasture north of Waratah Bay.	The proposed route has been selected to avoid species habitat as much as practicable.	There is a low likelihood of significant impact to this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendwises construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitgation measures to be implemented during construction.
Latham's snipe (Gollinogo Aordwickii)	Migratory Marine	Medium-sized wader that is found in permanent and ephemeral wetlands up to 2000 in above sea level. Found in a variety of vegetation types including tuscod grasslands, coastal and aligner heathlands, lignum on tex-res cruch, buttorgens plans, aligne hertifields and open forest. Species is widespread in Taismania with large colonies in the Central Plateau.	PMST: Species or species habitat known to occur within PMST search area. Ecological assessment: Suitable habitat unlikely within survey area. No records of the species within 5 km of proposed route.	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation is unlikely to impact the species due to the lack of habitat used by the species and lack of records within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitgation measures to be implemented during construction.
Fork-tailed Swift (Apus pacificus)	Migratory Marine	The fork-tailed swift has a slender body and a long deeply forked tail, usually held closed. Dark-brown above and whitish below. Often seen in groups and invariably near stands of palm trees in urban and rural areas in which they nest. Steals feathers from the bodies of other live birds in flight.	PMST: Species or species habitat likely to occur within PMST search area.	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation is unlikely to impact the species due to the lack of habitat used by the species and lack of records within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Flesh-footed shearwater (Ardenno corneipes)	Migratory Marine	The Fleich-footed Shearnater is dark brown on its upper side, being darkest on its head and outer wings. The under side is dark brown and underwings greych brown. The blackish tail benth weight darked or rounded. It has a dark type palae hom- count back and pain ligs and feat. It is also and a Pachy-footed Parel or Shearwater, Big or Lot of Yow blank Mutchhold or Pair-body Sched Shearwater.	PMST: Foraging, feeding or related behaviour likely to occur within area	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation is unlikely to impact the species due to the lack of habitat used by the species and lack of records within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trendwises construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitgation measures to be implemented during construction.
Sooty shearwater (Ardenno griseo)	Migratory Marine	The Sodty Shearwater is an entirely dark brown-grey bird, apart from a broad pale stripe down the centre of each underwing. It has a long slender bill, a slender head and a longsh neck. Its tail is short and rounded. In flight it has a cuciform shape, with its feet trailing slightly behind its tail.	PMST: Species or species habitat may occur within PMST search area.	The proposed route has been selected to avoid species habitat as much as practicable.	Clearing of vegetation is unlikely to impact the species due to the lack of habitat used by the species and lack of records within the survey area.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to novid and mitigate impacts. Matinus Link Easement Management Plan will set out mitigation measures to be implemented during construction to mitigate impacts such as spranding of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions gemit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Little tem (Sternula albifrans )	Migratory Marine	The Little Tern is mainly white with a dark crown, pale grey back and uppervings. The rey is dark brown. When breeding, the bill is yellow, the crown black with a short, pointed white brow and the black yee-line reaches the bill. In non-breeding plumage, the crown is motified with white and the bill Blackish. The wing tips are two-toned grey to black on the outer primaries (flight feathers).	PMST: Species or species habitat may occur within area. Ecological assessment: The little tern breeds in spring and summer along the entire eastern coast of Australia, and inhabits sheltered coastal environments, harbours, inities and nives. Suitable habitat has been identified at Waratah Bay Beach, which may be impacted by the project.	The proposed route has been selected to avoid species habitat as much as practicable.	Low likelihood of the project having a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Salvin's Albatross (Tholossorche solvini.)	Migratory	All ages have grey hood, narrow black leading edge on the underwing (wider and mession on immature). Adult has a dirty nale vellowish hill with duskier sides and a	PMST: Foraging, feeding or related behaviour likely to occur within area	The proposed route has been selected to	Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts.	Further assessment will be completed to assess potential impacts on the species and identify
White-capped Albatross (Tholassorche steadi)	Marine Migratory Marine	black spot near tip. The largest black-backed albatross with proportionally longer wings, slightly fuller body, stouter bill and less manoeuvrable flight.	Marine ecological assessment: Species or species habitat likely to occur in area PMST: Foraging, feeding or related behaviour likely to occur within area Marine ecological assessment: Species or species habitat likely to occur in area	avoid species habitat as much as practicable. The proposed route has been selected to avoid species habitat as much as practicable.	the species. Unlikely that the project will an impact on habitat as it is an oceanic species, and thus unlikely the project will have a significant impact on the species.	conditions permit. A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	appropriate mitigation measures to be implemented during construction.  Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Pygmy Right Whale (Caperea marginato)	Migratory Marine	Pygmy right whales have small, flat and ridged heads that are heavily accentuated by their strongly arched jawlines. Extremely pronounced, their jawlines are unmistakable and become more exaggerated as they grow older.	PMST: Foraging, feeding or related behaviour likely to occur within area. Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to avoid species habitat as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Whale and Dighnis incidents in Australian Waters. Adopt measures outliden LFPGAC RFUGS Statement 21 - Interaction between offshore sessinic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircruft, increased precatution and buffer zones, and passive acoust: monitoring. Comply with the regulations under the interaction for the Prevention of Pollution from Sites (MARPOL), implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, huil cleaning and extifoling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Shortfin mako (Isurus exyrinchus)	Migratory Marine	The shortfin make shark is cylindrical in shape, with a vertically elongated tail. This species exhibits countersharing, with brilliant metallic blue coloration dorsally and white ventral?. The line of demarctation between blue and white on the body is distinct. The underside of the snout and the area around the mouth are white.	PMST: Species or species habitat likely to occur within area Marine ecological assessment: Highly migratory species. Species or species habitat likely to occur in area	The proposed route has been selected to avoid species habitat as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Whale and Dolphins incidents in Australian Waters. Adopt measures outlind in FBRCAR reflex Statement 21. This interaction between offshore assimic regularization and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precaution and buffer sones, and passive acoustic monitoring. Comply with the regulations under the international Convention for the Provention of Pollution from Shipa (MARPOL). Implement a quarantized management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitgation measures to be implemented during construction.
Dusky dolphin (Lagenorhynchus obscurus)	Migratory Marine	Their faces are cone-shaped; the forehead slopes gently to the tip of the very short, dark-coloured beak. Dusk's look like they are wearing eyemaks as they have distinctive dark lips, smout tip, and path around each eye which stand out on the lighter face. Their bodies are also patterned – the back is dark grey to buils-black, the belly is white, and the sides are grey. The dorall in its tall and curved and its two- toned; it has a darker leading edge and a lighter-coloured trailing edge. The flippers are dark, long and curved with pointed tips. The tail flukes have pointy ends and are dark all over.	PMST: Species or species habitat may occur within area Marine ecological assessment: Species or species habitat may occur in area	The proposed route has been selected to avoid species habitat as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Whale and Doiphins incidents in Australian Waters. Adopt measures outlined in EPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precasion and buffer zones, and passive acoustic monitoring. Comply with the regulations under the International Convention for the Prevention of Pollution from Shigi (MARPOL). Implement a quarantine management Dia, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifolding requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitgation measures to be implemented during construction.
Porbeagle, Mackerel shark ( <i>Lomna nosus</i> )	Migratory Marine	The porbeagle has an upper tail lobe slightly larger than the lower. The porbeagle can easily be distinguished from the mako and the great white by its teeth which are smooth and have little cusps on each side at the base. The back is blue-grey or brown, fading down to the belly, which tends to be off-white.	PMST: Species or species habitat likely to occur within area Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to avoid species habitat as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Wala end Dophins incidents: In Australian Waters. Adopt measures outlined in EPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during dargtme with good visibility, use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acoustic monitoring. Comply with the regulations under the international Competition for the Prevention of Pollution from sings (MARPOL). Implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, mitigation and standards for vessels to comply with the restructioning requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Killer whale (Orcinus orca )	Migratory Marine	Killer whates are mostly black on top with white undersides and white patches near the eyes. They also have a givery or white saddle patch behind the dorsal fin. These markings vary which behaven individuals and populations. Adult mates develop disproportionately larger pectoral flippers, dorsal fins, tail flukes, and girths than females.	PMST: Species or species habitat likely to occur within area Marine ecological assessment: Species or species habitat likely to occur in area	The proposed route has been selected to avoid species habitat as much as practicable.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Whale and Dophins incidents in Australian Waters. Adopt measures outlined in EPEC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including prevence of a marine mammal observer (MMO), timing works during diptione with good visibility, used o topothressel and arcita, increased precation and authorizes on passwe acoustic monitoring. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarantine management plan, which incides requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, Indi Ceaning and antifologing requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Black-faced Monarch (Monarcha melanopsis)	Migratory	The Black-faced Monarch has a distinctive black face that does not extend across the eyes, grey upperparts, wings and upper breast, contrasting with a rufous (red-onage) bely. The dark eye has a thin black eye ring and a lighter area of pale grey around it. The blue-grey bill has a hooked tip.	Prost-species or species neural known to doccur within area. Ecological assessment: Mainly associated with operation build associated with a sociated with the operation operation operation operation of the second and used on the species of the survey area but there are nere enter encores. Suboptimal habitat may be present in the survey area but there are nere enter encores.	The proposed route has been selected to avoid species habitat as much as practicable.	There is a low likelihood of the project having a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Yeliow Wagtaii ( <i>Motocillo flovo</i> )	Migratory	A slender 15–16 cm long bird, with the characteristic long, constantly wagging tail of its genus. The breeding adult male is basically olive above and yellow below. In other plumages, the yellow may be diluted by white. The heads of breeding males come in a variety of colours and patterns depending on subspecies.	PMST: Species or species habitat may occur within area.	The proposed route has been selected to avoid species habitat as much as practicable.	There is a low likelihood of the project having a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Rufous fantail (Rhipidura ruffrons)	Migratory	The Bulous Fantal is a small, active bird which has a distinctive reddin thrown rung and continuously famed tail. The oron, face, neck and shouldes are grey-thrown, shading to reddish brown on the lower back, rung and upper tail. The speknows reddish-brown, the chin and throat are white, grading into a dappled black and white breast, and the red of the underparts are white theged red brown. The wing are grey- brown and the tail feathers have red-brown bases, but are otherwise dark grey, topped white.	PMST: Species or species habitat likely to occur within area. Ecological assessment: The rulous fantal is found in south and central Victoria, in wet scherophyll forests, subtropical and temperate rainforests. Suitable habitat has been identified within the Victorian survey area, and there is a moderate likelihood that this species occurs in the area, limited to larger patches of native forest and woodhand and vegetated waterways.	The proposed route has been selected to avoid species habitat as much as practicable.	The project is unlikely to substantially modify, destroy or isolate an area of important habitat for migratory bird species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link' Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.

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PMST: Refers to outcomes of the Protected Matter Search Tool (PMST) results Ecological assessment: Information from Marinus Link Terrestruit Ecology Report [ELA 2021] and the Species Profile Note: and Threats Database (Department of Agriculture, Water and the Environment) Marine ecological assessment: Information from Marinus Link Marine Ecology and Resource Use Desktop Assessment: Study (Envirodit 2021)

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Inrealenes species or ecological community Pectoral sandpiper (Calidris melanotos)	EPBC Act listing	Description <sup>14</sup> A stout, medium-sized shorebird with a moderately long, fairly thick-based bill and long wings. Adults are patterned in brown, gold, and black above, with white belly and neat dark-brown rows of stipples on the breast that stop sharply at the white belly. Juveniles are similar but with some rusty-degide feathers above. The legs are yellowish. In flight, shows little to no wingstripe.	Internood of occurrences PMST: Species or species habitat may occur within area. Ecological sasessment: Rare winter visitor to Taxmania. Occurs in a wide range of inland and coastal wellands. Mainly associated with estuaries and large coastal moffats.	Avoidance measures The proposed route has been selected to avoid species habitat as much as practicable.	Potential impixess The Project Is unlikely to substantially modify, destroy or isolate an area of important habitat for migratory bird species.	Medicinch is a space of the spa	Further assessment to be completed.
Osprey (Pandion haliaetus)	Migratory	The Osprey is a medium-sized fluh-eating raptor (bird of prey). It has dark brown upperparts contrasting with pale underparts. There is a black band through the eye, separating the white throat from the pale crown. The Osprey has a rather small head and next and typically savels is the adaround or sways is the band from side to side. When it is parched, there is a short britly crest. The eyes are gladed distictively. There are dark carapt patches on the underwing (at the bend in the wing). The bask is strongly hooked and the ligs are powerful. The female is similar to the male but is larger and has a fuller, darker breast band.	PMST: Species or species habitat likely to occur within area. Ecological assessment: Osprey is a marine bird which makes rare occurrences in Victoria and may make use of the shoreline at Waratah Bay, It inhabits rocky shorelines, islands, eter, mouth of argue rivers, lagoons and bakes. There is a moderate likelihood of occurrence within the Victorian survey area	The proposed route has been selected to avoid species habitat as much as practicable.	The Project is unlikely to substantially modify, destroy or isolate an area of important habitat for migratory bird species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Common Greenshank (Tringo nebulorio)	Migratory	The Common Greenshank is a large, rather heavily built wader. When not breeding, it is mainly grey-brown above and pale below. The head and neck are flecked with dark grey. The bill is dark to green-grey and is long with a slight upward curve. There is a narrow white eye ring and the long legs are yellowish-green.	PMST-Species or species habitat likely to occur within area. Ecological assessment: Widespread in coastal regions, mainly between Gippuland Lakes and Poot Phillip Bay. Inhabits terrestrial wetfands (swamps, lakes, dam, rhvers, receise, Jilahongs, waterholes and innurdeel foodpaint, cippans, satittas, serage Tarms and saltworks dams, inundated rice crops and bores) and shetered coastal habits(routilits, saltmarsh, margoves, embamyernet, habour, river estualite, detta, lagoons, total gools, rock-flats and rock platform). Small wetlands and swamps within tudy vaex. Linter derock associated with textuaries. There is a moderate likelihood of occurrence within the Victorian survey area.	The proposed route has been selected to avoid species habitat as much as practicable.	The Project is unlikely to substantially modify, destroy or isolate an area of important habitat for migratory bird species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Marinus Link Easement Management Plan will set out mitigation measures to be implemented during operations to mitigate impacts such as spreading of weeds and pathogens. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Marine species White-bellied sea-eagle (Hollocetus leucogoster)	Marine	The White-bellied Sea-Eagle has white on the head, rump and underparts and dark grey on the back and wings. In flight the black flight feathers on the wings are easily seen when the bird is viewed from below. The large, howed bill is grey with a darker tip, and the eye is dark brown. The legs and feet are cream-white, with long black taions (claws).	PMST: Species or species habitat likely to occur within area. Ecological assessment: Suitable foraging habitat for the white-bellied sea-eagle has been identified within the Victorian survey area.	The proposed route has been selected to avoid species habitat as much as practicable.	The Project is unlikely to substantially modify, destroy or isolate an area of important habitat for migratory bird species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Minke whale (Boloenoptero acutorostrata )	Marine	The minke whale is a black/grey/purple colour. The body is usually black or dark-grey above and white underneath. Most of the length of the back, including dorsal fin and blowholes, appears at once when the whale surfaces to breathe.	PMST: Species or species habitat may occur in area. Marine ecological assessment: Species or species habitat may occur in area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated, however further impact assessment will be completed for the project.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Wala and Dolphins incidents in Australian Waters. Adopt measures outlined in EPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime will good visibility, use of spotter vessel and aircraft, increased precaration and buffer zones, and passive acoustic monitoring. Comply with the regulations under the international Comments for the Prevention of Pollution from Stays (MARPOL). Implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, Includeaning and antifologing equirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
False killer whale (Pseudorco crossidens)	Marine	The faits killer whales have long, slender, black or dark grey bodies, a narrow pointed head with no back and a prominent bubbous forehead, or 'melon'. They have long, slim 5-shaped flippers that make them look as though they have elbows and a tail, tapered dorsalf hitse dolphins will usually have a slightly paler neck and some individuals have a pale 'W' shape on their chest.	PMST: Species or species habitat may occur in area. Marine ecological assessment: Species or species habitat may occur in area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated, however further impact assessment will be completed for the project.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Whale and Dolphins incidents in Australian Waters. Adopt measures outlined in EPRC Act Policy Statement 2.1 - Interaction between offshore sissinic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with thereaduation sources and an accalit, increased precaution and buffer zones, and passive acoust: monitoring. Comply with the regulations under the international Comvention of the Prevention of Pollution from Ships (MABPOL). Implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, Indi Leaning and antifologing equirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Common dolphin (Delphinus delphis )	Marine	Common dolphin are medium-sized dolphins; adults range between 1.9 and 2.5 m long, and can weigh between 80-235 kg, although the range between 80-150 kg is more common. The back is dark and the belly is white, while on each side is an hourglass pattern coloured light grey, yellow, or gold in front and dirty grey in back.	PMST: Species or species habitat may occur in area. Marine ecological assessment: Species or species habitat may occur in area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated, however further impact assessment will be completed for the project.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Wale and objoints incidents in Australian Waters. Adopt measures outlined in EPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acoustic monitoring. Comply with the regulations under the international Comversion for the Prevention of Pollution from size) (MARPOL, implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, Includening and antifologing equiments.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Risso's dolphin (Grampus griseus)	Marine	Very stocky dolphins with blunt heads and no discernible beak. Although they start out in life a grey/olive brown colour, as they get older they get whiter and whiter.	PMST: Species or species habitat may occur in area. Marine ecological assessment: Species or species habitat may occur in area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated, however further impact assessment will be completed for the project.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Wala end objoins incidencias in Jaurdialine Waters. Adopt measures outlined in EPBC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acousit monitoring. Comply with the regulations under the international Comversion for the Prevention of Pollution from Sings (MARPOL). Implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. Includeaning and antifologing requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin (Tursiqos aduncus)	Marine	The bottlenose dolphin weighs an average of 300 kg. It can reach a length of just over 4 meters. Its colour varies considerably, is usually dark grey on the back and lighter grey on the flanks, but it can be blukeryer, brownish-grey, or even nearly black, and is often darker on the back from the rostrum to behind the dorsal fin.	PMST: Species or species habitat may occur in area. Marine ecological assessment: Species or species habitat may occur in area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated, however further impact assessment will be completed for the project.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Whale and Dolphins incidents in Australian Waters. Adopt measures outlined in EPRC Act Policy Statement 2.1 - Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytive with good visibility, used o sporter vessel and arcraft, increased precaution and buffer zones, and passe acoustic monitoring. Comply with the regulations under the International Convention for the Prevention of Pollution from Shipis (MARPOL). Implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Short-finned pilot whale (Globicephala macrorhynchus)	Marine	The short-finned pilot whale has a bulbous melon head with no obvious beak. Its dorsal fin is far forward on its body and has a relatively long base. The body is black or dark brown, with a large grey saddle behind the dorsal fin.	PMST: Species or species habitat may occur in area. Marine ecological assessment: Species or species habitat may occur in area	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, and generated electromagnetic fields. Significant impacts on this species are not anticipated, however further impact assessment will be completed for the project.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Adopt National Guidance on the Management of Whale and Dolphins Incidents in Australian Waters. Adopt National Guidance on the Management of Whale and Dolphins Incidents in Australian Waters. Adopt measures outlined in EPBC.Att Policy Statement 2.1 Interaction between offshore seismic exploration and whales; including presence of a marine mammal observer (MMO), timing works during daytime with good visibility, use of spotter vessel and aircraft, increased precaution and buffer zones, and passive acoust: monitoring. Comply with the regulations under the international Convention for the Prevention of Pollution froms by (MARPOL). Implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. Mul Cleaning and actificationing requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Great Egret (Ardea alba)	Marine	The Great Egret's overall plumage is white, and, for most of the year, when not breeding, the bill and facial sits are yellow. The feet are dark oflive grey or story black as are the legs. During the breeding assound, the bill turns much black and the facial skin becomes green. Also at this time, long hair-like feathers (nuptial plumes) hang across the lower back, and the legs become pinkish-yellow at the top.	PMST: Species or species habitat likely to occur within area. Ecological assessment: Widespread in Australia. Inhabits swamps and marshes, grasslanda, margins of rivers and lakes, sait pans, estuarine mudiflats and other wetland habits. Not records are associated with more heavily vagettated wetlands although one record is associated with the nearby Naterhood Cooling Pond. This species care livel subscription of waterways within study area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Cattle Egret (Adrea Ibis)	Marine	A relatively small snow-white egret, the Cattle Egret is distinguished during breeding season by its orange crown, neck and breast, with similarly totted long loose neck plannes. The long sharp, slightly down-curved bill is gelow poission yellow, but becomes bright red during bright red on cart ple segs are normally grey green out of breeding season, turning bright red soro. The less are normally greeding.	PMST: Species or species habitat likely to occur within area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HOD or other tranchless construction methods is proposed at tageted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitgation measures to be implemented during construction.
Great Siua (Catharacto siuo)	Marine	Resembles a dark, heavily built immature gulls feeds by pirating gulls and other seablinds, also by scavenging at fishing boars. Dark brown overall with big white flashes in outer half of wings, adult has variable pale mottling on upperparts.	PMST: Species or species habitat may occur within area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitgation measures to be implemented during construction.
Rainbow Bee-eater	Marine	A striking, colourful bird, the Rainbow Bee-eater is medium sized, with a long slim curved till and a long tail with distinctive tail-streamers. It has a golden crown and a red eye set in a wide black strips from the base of the bill to the ears, which is edged with a thin blue line. The throat is orange-yellow, with a broad black hand separating it from a green breast. The upperparts are green, with the flight feathers coppery and black tipped. The underwings are bright orange, with a black edge. The lower abdomen is blue. The tail is black, including the long tail streamers, with a blue tinge.	PMST: Species or species habitat may occur within area.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. HOD or other trenchless construction methods is proposed at targeted crossing sites such as shore crossings, waterways, sealed roads, areas of roadside vegetation, and where geotechnical conditions permit.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Upside-down Pipelish, Eastern Upside-down Pipelish, Eastern Upside-down Pipelish (Heraldia nactuma)	Marine	The upside-down PipeRish is brown or yellowish-brown and has the dorsal fin closer to tail tip than the head, a large splikey caudal fin, and raised spiny edges on the body rings.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy saebed has a sparse distribution of seagrasses and macroalgae and its unlikely to be uitable habita for many syngarthing species. However, the Tamanian nearshore at Hephridge as patches of seagrass and dense covers of macroalgae on the rock platforms and reefs, where syngasthid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quartistic management flue, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for balasting, hull cleaning and antifouling requirements.	Surveys to map vegetation types and habitat will be completed within the survey area. Bird density surveys will also be completed if deemed necessary.
Big-belly Seahorse, Eastern Potbelly Seahorse, New Zealand Potbelly Seahorse (htppscampus abdominalis)	Marine	The Bigbelly Seahorse is the largest seahorse in Australia. It has a low triangular coronet, low, rounded bumps above the eyes, and flexhy filaments off the head. Adult males have a very porminent abdomen, whereas females have a compressed abdomen with a kel down the middler. Individuals range in colour from almost white to a mottled yellow, reddish or even brown, with irregular darker spots and blotches, and a broadly banded tail.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seabed has a sparse distribution of seagrasses and macroalgae and is unlikely to be suitable habits for many syngarithis gescies. However, the Tamanian nearshore at hephróge as patches of seagrass and dense covers of macroalgae on the rock platforms and reefs, where syngasthid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarkinitie management glue, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.



Inreatened species or ecological community	EPBC Act listing	Description*	Likelihood of occurrence*	Avoidance measures	Potential impacts*	Mitigation to be applied Further assessment to be completed"
Short-head Seahorse, Short-snouted Seahorse (Hippocompus breviceps)	Marine	A small, well-camouflaged seahorse with a short snout, a distinctly tall coronet, and fieshy tendrils on the head and body.	PMST: Species or species habitat may occur within area. Marine ocological assessment: In the Victorian nearshore in Waratah Bay, the sandy seabed has a sparse distribution of seagrases and macroalgae and is unlikely to be suitable habitat for mary syngambid species. However, the Tamanian nearshore at Heybridge as patches of seagrass and dense covers of macroalgae on the rock platforms and reds, where syngnathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Shipi (MARPOL). Implement a quartification measurement is for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifouling requirements.
Bulineck Seahorse (Hippocampus minotow)	Marine	A very small, orange seahorse.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seabed has a sparse distribution of segarases and macroalgee and is unlikely to be suitable habitatic many syngamid species. However, the Tramanian nearshore at Heybridge as patches of segarass and dense covers of macroalgee on the nock platforms and reeds, where synganthid species diversity may be expected to heybridge.	Little is known about its natural habitat and is has never been found in the wild. Avoiding common seahore habitat is the best avoidance measure for this species.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quartification measures to be implemented for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifouling requirements.
Crested Pipefish, Briggs' Pipefish (Histogomphelus briggsii )	Marine	A well-camouflaged pipelish that resembles decaying or encrusted seagrass leaves, algae and detritus. The high rounded snout ridge that only extends to the area between the eyes is distinctive.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seabed has a sparse distribution of segarases and macroalgae and is unlikely to be suitable habitat for mary syngarabli species. However, the Taramaian nearshore at Heybridge as patches of segarass and dense covers of macroalgae on the nock platforms and reeds, where syngnathid species diversity may be expected to higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quartification measures is to ecouply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifouling requirements.
Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish (Histiogomphelus cristatus)	Marine	The species is mottled brown in colour. Females have blueish blotches on the sides of the body. Juveniles have a rhino-like hump on the snout.	PMST: Species or species habitat may occur within area. Marine ecological assessment: in the Victorian nearshore in Warstah Bay, the sandy seaked has a sparse distribution of seagrasses and macroalgae and is unlikely to be suitable habitation many syngathid species. However, the Tamanian nearshore at Heybridge as patches of seagrass and dense covers of macroalgae on the mock platforms and reefs, where syngnathid species liversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quartification measures in the mathematication of Pollution for our ships (MARPOL). Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction. Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Knifesnout Pipefish, Knife-snouted Pipefish (Hypselagnathus rastratus)	Marine	A large mottled brown pipefish sometimes with indistinct pale bars across the back, and pale spots along the underside. Knifesnout Pipefish have a low ridge along the top of the snout.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seahe that as sparse distribution to segarases and macroalgae and is unlikely to be suitable habitat for many syngrathid species. However, the Taximahan nearshore at Hoydrige as parts of signars and dense covers of macroalgae on the rock platforms and reefs, where syngrathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting hull cleaning and antifouling requirements.
Deepbody Pipefish, (Kaupus costatus)	Marine	A reddish to reddish-brown pipefish with tiny blue, yellow and white dots on the back and fine wavy lines on the head and tail. The deep-bodied females have bluish streaks, bars and wallo cell above the lateral trunk ridge, and prominent blue markings on each trunk ring below the lateral ridge.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearchore in Warstah Bay, the sandy seabed has a sparse distribution of seagrasss and macroalgae and is unlikely to be suitable bahattor many syngamid species. However, the Taramaian nearshore at Heybridge as patches of seagrass and dense covers of macroalgae on the rock platforms and reefs, where syngruthid species lowersity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarterine management Plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifouling requirements.
Trawl Pipefish, Bass Strait Pipefish (Kimbloeus bassensis)	Marine	The Trawl Pipefish, the only species in the genus Kimblaeus, is only known from a few specimers taken in dredges on rubble or shely bottomed substrates. Body orange with a few darker orange spots on the head and broad brownish-orange bands on body.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearchore in Warstah Bay, the sindy seaded has a sparse distribution of segrasses and macroalgae and is unlikely to be suitable habitation many syngathid species. However, the Tramanian nearchore at Heybridge as patches of seagrass and denice covers of macroalgae on the rock platforms and reeds, where synganthid species diversity may be expected to he higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitgation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarteriative management Plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifouling requirements.
Brushtail Pipefish (Leptoichthys fistulorius)	Marine	A large well-carnouflaged pipefish with a large "brush-like" tail and a long snout.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearchore in Warstah Bay, the sindy seaked has a sparse distribution of segarases and macroalgae and is unlikely to be suitable habitation many syngathid species. However, the Taxamaian nearchore at Heybridge as patches of segarass and dense covers of macroalgae on the nock platforms and reefs, where syngnathid species diversity may be expected to higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Further assessment will be completed to assess potential impacts on the species and identify hull cleaning and antifouling requirements.
Australian Smooth Pipefish, Smooth Pipefish (Lissocompus runo)	Marine	Although the Smooth pipefish is widespread along Australia's southern coast, it is rarely seen due to its small size and cryptic coloration, often mimicking seagrass leaves and macroalgae.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaked has a sparse distribution of seagnases and macraalgae and is unlikely to be suitable habitat for many syngamid species. However, the Tamanian nearshore at Heybridge as patches of seagnass and dense covers of macraalgae on the nock platforms and reefs, where syngnathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species	A Construction Environmental Management Plan will be prepared, detailing mitgation measures to be implemented during construction to avoid and mitigate impacts. C comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quartantie management Plan, will be completed to assess potential impacts on the species and identify hull cleaning and antifouling requirements. Further assessment will be completed to assess potential impacts on the species and identify hull cleaning and antifouling requirements.
Javelin Pipefish (Lisscompus runo)	Marine	The Javelin Pipelish has an extremely elongate slender body that is encased in bony rings. The length of the body posterior to the donal fin is longer than that before the dorsal fin. The donal margin of the source is concare. Colouration of the species is variable. It is usually plain, but may have dark bars on the sides of the body.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearchore in Warstah Bay, the sandy seabed has a sparse distribution of seagness and macroalgae and is unlikely to be suitable habitat for many syngamid species. However, the Tamanian nearchore at Heybridge as patches of seagnass and dense covers of macroalgae on the mock platforms and reeds, where syngnathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species	A Construction Environmental Management Plan will be prepared, detailing mitgation measures to be implemented during construction to avoid and mitigate impacts. C comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarterine management Plan, will be completed to assess potential impacts on the species and identify hull cleaning and antifouling requirements. Further assessment will be completed to assess potential impacts on the species and identify hull cleaning and antifouling requirements.
Sawtooth Pipelish (Moroubra perservato)	Marine	A greyish to brown pigefish with a pale stripe along the head and back, a brown stripe on the side of the head, and often two narrow reddish-brown lines along the side. The common name refers to the spiny ridges on the body.	PMST: Species or species habitat may occur within area. Marine ecological assessment: in the Victorian nearshore in Warstah Bay, the sandy seabed has a sparse distribution of seagrasss and macroalgae and is unlikely to be suitable habitatic many syngarshid species. However, the Taramaian nearshore at Heybridge as patches of seagrass and dense covers of macroalgae on the nock platforms and reeds, where synganthid species diversity may be expected to higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate inpacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quartification measures to be implemented for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifouling requirements.
Halfbanded Pipelish (Mitotichthys semistriatus)	Marine	The Halfbanded Pipefish lives in very shallow seagrass and eelgrass beds in southern Australia.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaked has a sparse distribution of seagrases and macroalgae and is unlikely to be suitable habitatic many syngatistid species. However, the Tamanian nearshore at hetybridge as patches of seagrass and dense covers of macroalgae on the mock platforms and reeds, where syngnathid species liversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quartification measures in the provide the second of the prevention of Pollution for Ships (MARPOL). hull cleaning and antifouling requirements. Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Tucker's PipeRsh (Mitotichthys semistriotus)	Marine	Tucker's Pipefish is endemic to New South Wales and northern Tasmania where it lives in kelp beds and amongst floating Sargassum algae	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaked has a sparse distribution of segarases and macroalgae and is unlikely to be suitable habitat for many syngamid species. However, the Taxamaian nearshore at Heybridge as patches of segarass and dense covers of macroalgae on the mock platforms and reeds, where syngnathid species liversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitgation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Further assessment will be completed to assess potential impacts on the species and identify implement againstine management Plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifouling requirements.
Red Pipefish (Notiocampus ruber)	Marine	A dusky pink, red or maroon pipefish peppered with minute whitish to yellowish or reddish dots, a short snout, large eyes, and no pectoral fins.	PMST: Species or species habitat may occur within area. Marine ecological assessment: in the Victorian nearshore in Warstah Bay, the sandy seaked has a sparse distribution of segarases and macroalgae and is unlikely to be suitable habitat for many syngamid species. However, the Taxamaian nearshore at Heybridge as patches of segarass and dense covers of macroalgae on the mock platforms and reefs, where synganathid species diversity may be expected to higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarterimetic management Plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting. hull cleaning and antifouling requirements.

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PMST: Refers to outcomes of the Protected Matter Search Tool (PMST) results Ecological assessment: Information from Marinus Link Terrestria Ecology Report (ELA 2021) and the Species Profile Note: and Threads Database (Department of Agriculture, Water and the Environment) Marine ecological assessment: Information from Marinus Link Marine Ecology and Resource Use Desktop Assessment Study (Enviroduri 2021)

Threatened species or ecological community	EPBC Act listing	Description*	Likelihood of occurrence <sup>A</sup>	Avoidance measures	Potential impacts*	Mitigation to be applied	Further assessment to be completed*
Leafy Seadragon (Phycodurus eques)	Marine	The lobes of skin that grow on the leafy seadragon provide camouflage, giving it the appearance of seaweed (4) It is able to maintain the illusion when swimming, appearing to move through the water like a piece of floating seaweed. It can also change colour to blend in, but this ability depends on the seadragon's diet, age, location, and stress level.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seabed has a sparse distribution of seagnases and macroalge and is unlikely to be utuable habita for many syngemitid species. However, the Tamanian nearshore at Hephridge as patches of seagnass and dense covers of macroalge on the rock platforms and reefs, where syngnathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Shajs (MARPOL). Implement a quarkingthe management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Common Seadragon, Weedy Seadragon (Phyllopteryx toeniolotus)	Marine	The Common Seadragon is large and colourful with a long tubular snout and simple leaf-like appendages on the body that resemble kelp fronds.	PMST:Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaded has a sparse distribution of seagrasses and macroalgae and is unlikely to be suitable habitato for many syngamitati species. However, the Esranaian nearshore at Heybridge as patches of seagrass and dense covers of macroalgae on the rock platforms and reefs, where syngasthid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered wrilkely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from States (MARPOL). Implement a quarkinitie management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Pugnose Pipefish, Pug-nosed Pipefish (Pugnoso curtirostris)	Marine	The Pugnose Pipefish is endemic to southern Australia and is the only species in the genus Pugnaso.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaded has a sparse distribution of seagrasses and macroalgae and is unlikely to be suitable habits for many syngmitst dispecies. However, the Tamanian nearshore at Hephridge as patches of seagrass and dense covers of macroalgae on the rock platforms and reefs, where syngmathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPQL). Implement a quarkinitie management Jan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Rabust Pipeharse, Robust Spiny Pipeharse (Solegnathus robustus)	Marine	This rare pipehorse is endemic to South Australian waters and nothing is known of its biology.	PMST:Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaded has a sparse distribution of seagnases and macroalge and is unlikely to be utuable habita for many syngenthis species. However, the Tamanian nearshore at Hephridge as patches of seagnass and dense covers of macroalge on the rock platform and reefs, where syngenthid species diversity may be espected to be higher.	Little is known about its biology. Avoiding common pipefish habitat is the best avoidance measure for this species.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement 4 quarkingthe management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Spiny Pipehorse, Australian Spiny Pipehorse (Solegnothus spinosissimus)	Marine	Body pink, reddish or orange, with about 7 darker bars, blotches or pairs of spots on back; sides with many narrow yellow bars continuing onto tail as blotches or spots; middle of undersib oright red; mass reuronded by a reddish-brown blotch. Spiny Pipehorses are sometimes washed ashore after storms.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaded has a sparse distribution of seagrasses and macroalgee and is unlikely to be suitable habitat for many syngmathing species. However, the Tamanian nearshore at Heybridge as patches of seagrass and dense covers of macroalgae on the rock platforms and reefs, where syngmathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPQL). Implement a quarkingthe management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Spotted Pipefish, Gulf Pipefish, Peacock Pipefish (Stigmotoporo argus)	Marine	A slender greenioh-brown pipefish, ussally with evenly scattered small dark or pale spots, sometimes ocelated spots, often covering all but the underside, and an almost prehensile tail that lacks a caudal fin.	PMST: Species or species habitat may occur within area. Marine ecological assessment. In the Victorian nearshore in Warstah Bay, the sandy seabed has a sparse distribution of seagrasses and macroalge and is unlikely to be utuable habits for many syngemitid species. However, the Tamanian nearshore at Hephridge as patches of seagrass and dense covers of macroalge on the rock platform.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarkingthe management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Widebody Pipefish, Wide-bodied Pipefish, Bluck Pipefish (Stigmatopora nigra)	Marine	A slender pipefish with a variable colour pattern ranging from overall greenish to brownish and even bright red depending on the habitst. Framies have a zeries of bark bands across the valuesized of the value part of the body, and dhen an orange line along the side. Wide-body Pipefish tack a caudal fin, and cling to seagnass fronds and alge with their almost prehensite tails.	PMST:Species or species habitat may occur within area. Marine ecological assessment. In the Victorian nearshore in Warstah Bay, the sandy seaded has a sparse distribution of seagrasses and macroalge and is unlikely to be suitable habits for many syngemitid species. However, the Tramanian nearshore at Hephridge as patches of seagrass and dense covers of macroalge on the rock platforms and reefs, where syngenthid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarkingthe management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Ringback Pipefish, (Stigmatopora cristatus)	Marine	An mottled brownish pipefish with 9–11 irregular narrow pale bars or blotches along the back, pale irregular blotches along the sides of the tail, and a dark blotch on the dorsal fin. The Ringback Pipefish also has an elevated snout ridge.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seabed has a sparse distribution of seagnases and macroalge and is unlikely to be suitable habits for many syngmitst dispecies. However, the Tamanian nearshore at Hephröge as patches of seagnass and dense covers of macroalge on the rock platforms and reefs, where syngmathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement 4 quarkingthe management Jun, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Hairy Pipelish (Urocompus corinirostris)	Marine	A small, sedentary pipefish covered in hairy appendages which provide camouflage amongst edgrass and seagrasses. Hairy Pipefish use their prehensile tails to cling to vegenation on the substrate.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaded has a sparse distribution of seagnases and macroalge and is unlikely to be suitable habits for many syngemitis descries. However, the Tamanian nearshore at Hephridge as patches of seagnas and dense covers of macroalge on the rock platforms and reefs, where syngenthid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPQL). Implement a quarkingthe management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Mother-of-pearl Pipefish (Vanocompus margaritijfer)	Marine	A brown to greyish-brown pipefish with pale bars across the back, small pearly spots along the side and distinct pale markings on the ventral ridges. The Mother-of-pearl Pipefish has a long snout, a small tail fin and low ridges on the body.	PMST: Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seabed has a sparse distribution of seagrasses and macrolagie and is willikely to be suitable habits for many syngmathing species. However, the Tamanian nearshore at hephridge as patches of seagrass and dense covers of macrolagie on the rock platforms and reefs, where syngmathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarkingthe management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Port Phillip Pipelish (Vanacampus phillipi)	Marine	This endemic pipefish has a moderately long snout. It is brownish with indistinct bars and spots, and blue bars on the sides, especially in larger individuals. males and females are similar.	PMST:Species or species habitat may occur within area. Marine ecological assessment: In the Victoriun nearshore in Warstah Bay, the sandy seaked has a sparse distribution of segarases and macroalge and is willikely to be suitable habits for many syngenthia species. However, the Stramanian nearshore at Heyknidge as patches of seagrass and dense covers of macroalgae on the rock platforms and reefs, where syngmathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Sajas (MARPOL). Implement a quarkinitie management (and, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Longsnout Pipefish (Vanacampus peocilolaemus)	Marine	A pale brown pipefish with 6–9 rows of small dark-edged ocelli on the side of the trunk; side of snout with faint diagonal pale bars or biotches in adult males, distinct dark bars and spots in adult females.	PMST:Species or species habitat may occur within area. Marine ecological assessment: In the Victorian nearshore in Warstah Bay, the sandy seaked has a sparse distribution of seagrases and macroalgee and is willikely to be suitable habits for many syngmathing species. However, the Esranavian nearshore at Heyhridge as patches of seagrass and dense covers of macroalgae on the rock platforms and reefs, where syngmathid species diversity may be expected to be higher.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Sajes (MARPOL). Implement a quarkinitie management (and, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Long-tosed Fur-seal (Arctocephalus forsteri)	Marine	Long-nosed fur seals have external ears and hind flippers that rotate forward, which visibly distinguish them from other seals. They have a pointy nose with long pale whisters. The fir vasia are covered by two layers of fur. The coat is grey-thoren on their back, and lighter on their bely. Some have white tips on longer upper hairs, which can vie them a silver vite assocrance.	PMST: Species or species habitat may occur within area. Marine ecological assessment: Species is rare in Tasmanian waters of Bass Strait and is mainly found gm the south and east coasts of Tasmania, as well as the coast of South Australia. In Victoria, Jong nosed fur seal breeding is known to occur at Knowna Maiden wilkions Promonet with the seal breeding is known to occur	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarantine management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.
Australian Fur-seal (Arctocephalus pusillus)	Marine	Adult males can reach up to 100 kg. Fur Seals also varies between male and female, with the male being dark grey to brown with a paler underside. They have a dark mane of coarse har over the neck and budders. Females can vary from pale fawn to greyish brown with a paler yellowish throat and underside.	PMST: Species or species habitat may occur within area. Marine ecological assessment: species known to occur within area. There are ten established breeding colonies of the Auxialian Fur-seal, which are restricted to islands in the Bass Strait; six occurring off the coast of Victoria and four off the coast of Taxmania.	The proposed route has been selected to avoid species habitat as much as practicable.	It is considered unlikely that the project, completed with appropriate management measures, will have a significant impact on this species.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid and mitigate impacts. Comply with the regulations under the international Convention for the Prevention of Pollution from Ships (MARPOL). Implement a quarkingthe management plan, which includes requirements for vessels to comply with Australian and International Maritime Organisation guidelines and standards for ballasting, hull cleaning and antifouling requirements.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.



PMST: Refers to outcomes of the Protected Matter Search Tool (PMST) results Ecological assessment: Information from Marinus Link Terrestrial Ecology Report [ELA 2021] and the Species Profile Net: and Thrests Lindbase (Department of Agriculture, Water and the Environment) Marine ecological assessment: Information from Marinus Link Marine Ecology and Resource Use Desktop Assessment Study (Envirodic) 2021)

Threatened species or ecological community	EPBC Act listing	Description*	Likelihood of occurrence <sup>A</sup>	Avoidance measures	Potential impacts*	Mitigation to be applied
Bottlenose Dolphin (Tursiqos truncatus s str.)	Marine	The bottlenose dolphin weighs an average of 300 kg. Its colour varies considerably, is usually dark grey on the back, and lighter grey on the flanks, but it can be blush-grey, bornetish-grey, over navity black, and is often darker on the back from the result to behind the dorsal film. This is called counteshading and is a form of camouflage. Other dolphins sometimes have a few spots.	PMST: Species or species habitat may occur within area. Marine ecological assessment: species or species habitat may occur within area.	Identify breeding times and areas and conduct any work outside of this time.	Potential impacts on this species may occur from construction and operation of the project, including from vessel noise, behavioural disruption, ang emerated electromagnetic fields. Significant impacts on this species are not anticipated.	A Construction Environmental Management Plan will be prepared, detailing mitigation measures to be implemented during construction to avoid Adopt National Guidance on the Management of Whale and Dolphins Incidents in Australian Waters. Adopt measures outlined in EPRC At Policy Statement 2.1 - Interaction between offshore seamic exploration and whales; including presence of a works during dyname with good visibility, used 6 spotter vessel and aircraft, increased precaution and buffer stores, and passes exoastic monitorin Confidement a quarantile management plan, which includes requirements for vessels to comply with Australian and International Maritame Organis half cleaning and antifouling requirements.

Further assessment to be completed*					
d and mitigate impacts. I a marine mammal observer (MMO), timing ring.	Further assessment will be completed to assess potential impacts on the species and identify appropriate mitigation measures to be implemented during construction.				
nisation guidelines and standards for ballasting,					